The opinions and conclusions of a geotechnical report are based on the interpretation of information obtained by random borings. Therefore the actual site conditions may vary somewhat from those indicated in this report. It is our opinion that field observations by the geotechnical engineer who has prepared this report are critical to the continuity of the project.

Slope Angles Allowable slope angle for cuts in the native soils is dependent on soil conditions, slope geometry, the moisture content and other factors. Should deep cuts be planned for this site, we recommend that a slope stability analysis be performed when the location and depth of the cut is known.

DRAINAGE AND GRADIENT

Adequate site drainage should be provided in the foundation area both during and after construction to prevent the ponding of water and the wetting or saturation of the subsurface soils. We recommend that the ground surface around the structure be graded so that surface water will be carried quickly away from the building. The minimum gradient within 10 feet of the building will depend on surface landscaping. We recommend that paved areas maintain a minimum gradient of 2%, and that landscaped areas maintain a minimum gradient of 8%. It is further recommended that roof drain downspouts be carried at least 5 feet beyond all backfilled areas and discharged a minimum 10 feet away from the structure. Proper discharge of roof drain downspouts may require the use of subsurface piping in some areas. Under no circumstances should a 'dry well discharge' be used on this site, unless specifically sited by a Geotechnical Engineer. Planters, if any, should be so constructed that moisture is not allowed to seep into foundation areas or beneath slabs or pavements.

If adequate surface drainage cannot be maintained, or if subsurface seepage is encountered during excavation for foundation construction, a full perimeter drain is recommended for this building. It is recommended that this drain consist of a perforated drain pipe and a gravel collector, the whole being fully wrapped in a geotextile filter fabric. We recommend that this drain be constructed with a gravity outlet. If sufficient grade does not exist on the site for a gravity outlet, then a sealed sump and pump is recommended. Under no circumstances should a 'dry well discharge' be used on this site, unless specifically sited by a Geotechnical Engineer.

The existing drainage on the site must either be maintained carefully or improved. We recommend that water be drained away from structures as rapidly as possible and not be allowed to stand or pond near the building. We recommend that water removed from one building not be directed onto the backfill

areas of adjacent buildings. We recommend that a hydrologist or drainage engineer experienced in this area be retained to complete a drainage plan for this site.

To give the building extra lateral stability and to aid in the rapidity of runoff, it is recommended that all backfill around the building and in utility trenches in the vicinity of the building be compacted to a minimum of 90% of its maximum Proctor dry density, ASTM D 698. The native soils on this site may be used for such backfill. We recommend that all backfill be compacted using mechanical methods. No water flooding techniques of any type may be used in placement of fill on this site.

Should an automatic lawn irrigation system be used on this site, we recommend that the sprinkler heads, irrigation piping and valves be installed no less than 5 feet from the building. In addition, these heads should be adjusted so that spray from the system does not fall onto the walls of the building and that such water does not excessively wet the backfill soils.

It is recommended that lawn and landscaping irrigation be reasonably limited, so as to prevent undesirable saturation of subsurface soils or backfilled areas. Several methods of irrigation water control are possible, to include, but not limited to:

- Metering the Irrigation water.
- Sizing the irrigation distribution service piping to limit on-site water usage.
- Encourage efficient landscaping practices.
- Enforcing reasonable limits on the size of high water usage landscaping for each lot and any park areas.
- Incorporating 'zeriscaping' landscaping and irrigation techniques.

FOUNDATIONS

Assuming that some amount of differential movement can be tolerated, then a conventional shallow foundation system, underlain by structural fill composed of either reworked native soils or imported granular material, placed in accordance with the recommendations contained within this report may be utilized. The foundation would probably consist of continuous narrow to moderately wide spread footings beneath all bearing walls and isolated spread footings beneath all columns and other points of concentrated load. Such a shallow foundation system, resting on the properly constructed structural fill, may be designed on the basis of an allowable bearing capacity of 1600 psf maximum. A minimum bearing of 300 psf should be maintained.

Recommendations pertaining to balancing, reinforcing, drainage, and inspection are considered extremely important and must be followed. Contact stresses beneath all continuous walls should be balanced to within + or - 200 psf at all points. Isolated interior column footings should be designed for contact stresses of about 150 psf more than the average used to balance the continuous walls. The criteria for balancing will depend somewhat on the nature of the structure. Single-story, slab-on-grade structures may be balanced on the basis of dead load only. Multi story structures may be balanced on the basis of dead load plus one half live load, for up to three stories.

If the design of the upper structure is such that loads can be balanced reasonably well or if minor amounts of differential settlement can be tolerated, a floating structural slab or raft type of foundation could be used on this site. If the slab is to be a floating structural slab, similar in appearance to the "monolithic" slab used in the Grand Junction area, the slab should be underlain by a minimum of 2 feet of structural fill, placed in accordance with recommendations contained in this report. Such a slab would require heavy reinforcing to resist differential bending. This structural slab, using the granular structural fill as part of the foundation system, could be designed assuming the top of the structural fill has a modulus of subgrade reaction of k=250 pci. If large concentrated loads are located in the interior of this fill or if minor construction problems are encountered in the placement of the fill, the use of geosynthetic fabric or geogrid as part of the fill construction would significantly improve the performance of the fill and foundation system.

It is possible to design either the floating structural slab or the raft type of slab either as a solid or ribbed slab, but in either case a rimwall must be used for confinement. Any such slab must be specifically designed for the anticipated loading. Such a foundation system will settle to some degree as the softer, underlying soils consolidate, but differential movement is held to a minimum. Because the soils may settle in varying amounts, some minor cracking and heave are possible unless the slabs are specifically designed with the movement in mind.

Stem walls for a shallow foundation system should be designed as grade beams capable of spanning at least 12 feet. These "grade beams" should be horizontally reinforced both near the top and near the bottom. The horizontal reinforcement required should be placed continuously around the structure with no gaps or breaks. Vertical reinforcement and possibly additional horizontal reinforcement will be required for walls retaining more than 4 feet of backfill A foundation system designed in this manner should provide a rather rigid system and, therefore, be better able to tolerate differential movements associated with the slightly expansive, slightly compressible to moderately compressible subgrade soils.

STRUCTURAL FILL/SOIL IMPROVEMENT

For use in conjunction with a shallow foundation system, a structural fill is recommended to replace the upper metastable, possible slightly expansive soils. This structural fill may be placed in conjunction with structural fill beneath concrete slabs on grade. The existing metastable or slightly expansive soils should be removed to a depth of 1 foot to 2 feet below the proposed bottom footing elevation. The excavation/fill width is to extend at least 30 to 50 inches from the interior and exterior of the proposed foundation wall or bearing pad in contact with the fill. Once it is felt that adequate soil removal has been achieved, it is recommended that the excavation be closely examined by a representative of Grand Junction Lincoln-DeVore to ensure that an adequate over excavation depth has indeed occurred and that the exposed soils are suitable to support the proposed structural man-made fill.

At the specific direction of the Geotechnical Engineer, it may be appropriate to extensively water soak the over-excavated portion of the site for a minimum of 1 day and possibly up to 4 days, prior to the installation of any required perimeter drain and the structural fill. The purpose of this wetting or soaking is to provide initial settlement/collapse of the subgrade soils and to allow proper subgrade. This wetting or soaking must be controlled and not allowed to adversely affect nearby structures.

After any required soaking has been accomplished, the subgrade soils are to be mechanically compacted to a minimum of 86% of the soils maximum Modified Proctor dry density (ASTM D-1557) for a depth of at least 6 inches.

Once this examination has been completed, it is recommended that a coarse-grained, non-expansive, non-free draining man-made structural fill be imported to the site and placed on the properly prepared subgrade soils. Non-Expansive, Native soils may be utilized as structural fill, if specifically approved by the Geotechnical Engineer. The upper 6" to 12"(minimum) of the fill is to be a sandy gravel (minus 3/4" & GM/GW) or a gravelly sand (minus 3/4" & SM/SW). The structural fill should be placed in the overexcavated portion of this site in lifts not to exceed 6 inches after compaction. A minimum of 90% of the soils maximum Modified Proctor dry density (ASTM D-1557) must be maintained during the soil placement. These soils should be placed at a moisture content conducive to the required compaction (usually Proctor optimum moisture content + 2%).

Very low expansive to non-expansive, native soils may be utilized as structural fill, if specifically approved by the Geotechnical Engineer. If these native soils have a slight expansive potential, the soils should be placed as structural fill in lifts not to exceed 6 inches after compaction. These soils must not be over compacted but, compacted wet of the soils 'optimum' moisture content. These soils should be placed at a minimum of 86% and a maximum of 92% of the soils maximum modified proctor dry density, ASTM D-1557. These soils must be placed at a moisture content conducive to the required compaction while being wet of the 'optimum' moisture content. These soils must be placed at 'optimum' moisture content or up to 4% over 'optimum' moisture content.

The granular material must be brought to the required density by mechanical means. No soaking, jetting or puddling techniques of any type should be used in placement of fill on this site. To confirm the quality of the compacted fill product, it is recommended that surface density tests be taken at maximum 2 foot vertical intervals.

It is recommended that any required perimeter drain be placed in the exterior portion of the structural fill, at the base of the fill, in order to prevent or at least minimize the collection of water in the soils and fill beneath the structure.

SETTLEMENT

We anticipate that total and/or differential settlements or heaves for the proposed structures may be considered to be within tolerable limits, provided the recommendations presented in this report are fully complied with. In general, we expect total settlements for the proposed residential structures to be less than 1 inch and total heaves to be less than ½ inch. It must be noted that part of the structure may undergo settlement and part may undergo heave.

FROST PROTECTION

We recommend that the bottom of all foundation components rest a minimum of 1-1/2 feet below finished grade or as required by the local building codes. Foundation components must not be placed on frozen soils.

Structural slab-on-grade (Monolithic) foundation systems typically have an effective soil cover of less than 12 inches. Under normal use, the building and foundation system radiates sufficient heat that frost heave from the underlying soils is not normally a problem. However, additional protection can be provided by applying an insulation board to the exterior of the foundation and extending this board to approximately 18 inches below the final ground surface grade. This board may be applied either prior to or after the concrete is cast and it is very important that all areas of soil backfill be compacted. Local building officials should be consulted for regulatory frost protection depths.

SEISMIC DATA

Utilizing the criteria of the 2000 International Building Code, Section 1615 and our interpretation of figures 1615(1) and 1615(2), Structures in Grand Junction, Colorado should be designed with **Special Response Acceleration factors**, $S_s=0.35 \& S_1 = 0.08$. Based upon our analysis of the soils which are expected to be present beneath the building foundations, the **Site Classification is** <u>E</u>. These values can be used to determine the **Values of Site Coefficient**, $F_a \& F_v$ from Tables 1615.1.2(1) & 1615.1.1(2), to calculate Sms, Sm₁, Sps & SP1 and to determine the **Seismic Design Categories** from Tables 1616.3(1) and 1616.3(2).

CONCRETE SLABS ON GRADE

Slabs could be placed directly on the natural soils or on a structural fill. We recommend the subgrade soil surface be slightly moistened and 'proof rolled' immediately prior to concrete placement.

Due to the potential for differential collapse/settlement and heave beneath slabs on grade, we strongly recommend that slabs on grade be placed on structural fill constructed in according to recommendations contained in this report in the Foundation Section.

We recommend that all on-grade slabs be isolated from other structural portions of the building. This is generally accomplished by an expansion joint at the slab-foundation wall interface. If a vapor barrier is desired beneath slabs, we recommend that it be overlain by at least 2 inches of sand to decrease the likelihood of curing problems. An alternate method of reducing finishing problems would be to place the vapor barrier beneath approximately 6 inches of a minus 3/4 inch gravel fill. This method must be very carefully accomplished to minimize excessive puncturing and tearing of the vapor barrier.

If a full basement is anticipated beneath this site, if poor surface drainage is anticipated at the end of construction or if water seepage is encountered in the foundation excavation, it is recommended that slabs on grade be constructed over a capillary break of approximately 6 inches in thickness. We recommend that the material used to form the capillary break be free draining, granular material and not contain significant fines. A free draining outlet is also recommended for this break so that it will not trap water beneath the slab. A vapor barrier is recommended beneath the floor slab and above the capillary break. To prevent difficulty in finishing concrete, a 2 inch sand layer should be placed above the break. An alternate method of reducing finishing problems would be to place the vapor barrier beneath approximately 6 inches of a minus 3/4 inch gravel fill. This method must be very carefully accomplished to minimize excessive puncturing and tearing of the vapor barrier.

It is recommended that floor slabs on grade be constructed with control joints placed to divide the floor into sections. Slab sections of up to 256 sq. ft. are successfully placed, using appropriate concrete mixes and placement techniques common to good workmanship in this area. Unless specifically designed, control joints should be placed no more than 16 feet on center in each direction. In the case of expansive subgrade soils, additional joints should be placed at columns and at inside corners. *In the case of expansive subgrade soils, we further recommend additional joints placed 2 to 3 ½ feet off and parallel to foundation wall.* Also, additional control joints are recommended at all inside corners and at all columns to control cracking in these areas.

Problems associated with slab 'curling' are usually minimized by a 'low shrinkage' concrete mix design, placing distributed reinforcing steel in the slab and proper curing of the placed concrete slab. This period of curing usually is most critical within the first 5 days after placement. Proper curing can be accomplished by minimizing moisture loss at the top slab surface. This may be accomplished utilizing continuous water application to the concrete surface or, in some instances by the placement of a 'heavy' curing compound, formulated to minimize water evaporation from the concrete. Curing by continuous water application must be carefully undertaken to prevent the wetting or saturation of the subgrade soils.

EARTH RETAINING STRUCTURES

The active soil pressure for the design of earth retaining structures may be based on an equivalent fluid pressure of 48 pounds per cubic foot. The active pressure should be used for retaining structures which are free to move at the top (unrestrained walls). For earth retaining structures which are fixed at the top, such as basement walls, an equivalent fluid pressure of 60 pounds per cubic foot may be used. It should be noted that the above values should be modified to take into account any surcharge loads, sloping backfill or other externally applied forces. The above equivalent fluid pressures should also be modified for the effect of free water, if any.

The passive pressure for resistance to lateral movement may be considered to be 230 pcf per foot of depth. The coefficient of friction for concrete to soil may be assumed to be 0.27 for resistance to lateral movement. When combining frictional and passive resistance, the latter must be reduced by approximately 1/3.

Drainage behind retaining walls is considered critical. If the backfill behind the wall is not well drained, hydrostatic pressures are allowed to build up and lateral earth pressures will be considerably increased. Therefore, we recommend a vertical drain be installed behind any impermeable retaining walls. Because of the difficulty in placement of a gravel drain, we recommend the use of a composite drainage mat similar to Exxon Battledrain or Tensar MD Series NS-1100. An outfall must be provided for this drain.

REACTIVE SOILS

Since groundwater in the Grand Junction area typically contains sulfates in quantities detrimental to a Type I cement, a Type II or Type I-II or Type II-V cement is recommended for all concrete which is in contact with the subsurface soils and bedrock. Calcium chloride should not be added to a Type II, Type I-II or Type II-V cement under any circumstances.

PAVEMENTS

Samples of the surficial native soils that may be required to support pavements have been evaluated using the Hveem-Carmany method (ASTM D-2844) to determine their support characteristics. The results of the laboratory testing are as follows:

AASHTO Classification - A-4(7) Unified Classification - CL-ML

Soil Type # I, Silty Clay

R	=	8
Expansion @ 300 psi	=	18.9 psf
Displacement @ 300 psi	=	4.85

Displacement values higher than 4.00 generally indicate the soil is unstable and may require confinement for proper performance.

Traffic Counts or anticipated volumes have not been provided to Grand Junction Lincoln DeVore. Based upon our understanding of the project, we believe the majority of street length will be relatively low traffic volume residential in nature. It is anticipated that Cortland Avenue, and possibly Ridge Drive, will experience elevated traffic flows. A previous study and computation for Cortland Avenue prepared by Grand Junction Lincoln DeVore, Job # 87311-GJ, 4-20-99 indicates that a design ADT = 3000. Utilizing this design ADT and for purposes of this analysis, Cortland Avenue is assumed to eventually be a 4 laned road way and therefore, an 18K EAL (EDLA) of 16.2 was utilized.

Two methods of design were utilized for this project. First, the 1986 AASHTO procedure, recognized by the Colorado Department of Transportation and second, The Asphalt Institute (MS-1). A design life of 30 years was used, with an annual growth rate of 3%.

Based upon the existing topography, the anticipated final road grades and subsurface soils conditions encountered during the drilling program, a Drainage Factor of 0.8 (1986 AASHTO procedure) and a mean average annual air temperature (MAAT) of 60° Fahrenheit (Asphalt Institute Method) has been utilized for the section analysis.

Calculated Pavement Sections

PAVEMENT SECTIONS

$\underline{18k \text{ EAL}} = 5:$	18k EAL = 16.2:
3" or 4" asphaltic concrete, AC	3" or 4" AC
on 9" or 6" of aggregate base course, ABC	on 18" or 13" ABC
on 10" of compacted subgrade	on 10" Subgrade

Utilizing the Asphalt Institute method of calculations, approximately 1 to 2 inches less of aggregate base course was required. Due to our experience in this area and the inability to readily incorporate long term subgrade soil drainage conditions into the design of the Asphalt Institute method, we strongly recommend the AASHTO method be utilized for design purposes.

SUBGRADE IMPROVEMENT, MECHANICALLY STABILIZED FILL

Due to the possibility of very high soil moisture in the subgrade soils n part or all of this site, the use of a Geotextile Fabric for separation and minor reinforcement placed beneath the Structural Section, may be required. It is recommended a woven fabric, such as Amoco 2002 or Contech C-180 or Mirafi 500-X, be utilized unless free water is present in the excavation. If free water is present, the non-woven fabric, such as Amoco 4547, Contech C-50NW or Mirafi 140N, while possessing lower strength generally provides better constructability. If required, Equivalent Reinforcement Strength can be obtained by using Amoco 4552 or Contech C-70NW or Mirafi 180N.

The additional materials and effort expended in subgrade stabilization is to provide a construction platform, so the actual Road Section can be placed and compacted. The specific areas which will require placement of the Geotextile Fabric will depend on the actual conditions encountered during construction. The subgrade and road section construction should be monitored by representatives of the Geotechnical Engineer.

Geotextile Fabric for separation and minor reinforcement should be either a woven with a minimum Grab Strength of 180 lb., in the weakest direction (such as Amoco 2002 or Contech C-180 or Mirafi 500-X). If free water is encountered, Equivalent Reinforcement Strength (minimum Grab Strength of 180 lb., in the weakest direction) can be obtained by using Amoco 4552 or Contech C-70NW or Mirafi 180N may be used for better constructability. In instances requiring only separation properties, a non-woven/needle punched Geotextile with a minimum Grab Strength of 120 lbs., in the weakest direction (such as Amoco 4506, Contech C-50NW or Mirafi 140N) may be utilized, even though it is a weaker fabric.

The imported structural Fill (Hveem-Carmany R>70, swell not critical) is to be Granular, Medium to Coarse Grained, Very low plastic (PI<4), Non Freedraining, Compactable and within the following Gradation:

Maximum size, by screening	<u>8"</u>
Passing the #4 screen	20% - 85%
Passing the #40 screen	10% - 60%
Passing the #200 screen	3% - 15%

The maximum aggregates size may be exceeded if the contractor can provide evidence of proper compaction of the matrix material while avoiding excessive particle size segregation of the fill material or avoiding excessive overworking of the subgrade soils. Imported Structural Fill and Aggregate Base Course (ABC) to be compacted to 90% of its maximum Modified Proctor dry density (ASTM-D-1557) at a moisture content within \pm 2% of optimum moisture. The use of light weight tracked equipment will minimize subgrade degradation, vibratory compaction equipment is not recommended.

During the placement of any structural fill, it is recommended that a sufficient amount of field tests and observation be performed under the direction of the Geotechnical Engineer. The Geotechnical Engineer should determine the amount of observation time and field density tests required to determine substantial conformance with these recommendations.

Any areas of Fill or Subgrade instability encountered during construction are to be immediately brought to the attention of the Geotechnical Engineer, so recommendations for stabilization can be given.

The Subgrade Stabilization is normally considered effective if the imported structural fill materials are confined, if specified imported fill and specified asphalt densities are obtained and the final traffic surface is stable according to local practices. Some 'pumping and rolling' of the finish Base Course (ABC) surface is anticipated but, rutting should not occur.

PAVEMENT SECTION CONSTRUCTION

FLEXIBLE PAVEMENT

We recommend that the asphaltic concrete pavement meet the State of Colorado requirements for a Grade C mix. In addition, the asphaltic concrete pavement should be compacted to a minimum of 95% of its maximum Hveem density. The aggregate base coarse should meet the requirements of State of Colorado Class 5 or Class 6 material, and have a minimum R value of 78. We recommend that the base coarse be compacted to a minimum of 95% of its maximum Modified Proctor dry density (ASTM D-1557), at a moisture content within + or -2% of optimum moisture. The native subgrade shall be scarified

and recompacted to a minimum of 90% of their maximum Modified Proctor day density (ASTM D-1557) at a moisture content within + or -2% of optimum moisture.

All pavement should be protected from moisture migrating beneath the pavement structure. If surface drainage is allowed to pond behind curbs, islands or other areas of the site and allowed to seep beneath pavement, premature deterioration or possibly pavement failure could result.

LIMITATIONS

This report is issued with the understanding that it is the responsibility

of the owner, or his representative to ensure that the information and recommendations contained herein are brought to the attention of the individual lot purchasers for the subdivision. In addition, it is the responsibility of the individual lot owners that the information and recommendations contained herein are brought to the attention of the architect and engineer for the individual projects and the necessary steps are taken to see that the contractor and his subcontractors carry out the appropriate recommendations during construction.

The findings of this report are valid as of the present date. However, changes in the conditions of a property can occur with the passage of time, whether they be due to natural processes or the works of man on this or adjacent properties. In addition, changes in acceptable or appropriate standards may occur or may result from legislation or the broadening of engineering knowledge. Accordingly, the findings of this report may be invalid, wholly or partially, by changes outside our control. Therefore, this report is subject to review and should not be relied upon after a period of 3 years.

The recommendations of this report pertain only to the site investigated and are based on the assumption that the soil conditions do not deviate from those described in this report. If any variations or undesirable conditions are encountered during construction or the proposed construction will differ from that planned on the day of this report, Grand Junction Lincoln DeVore should be notified so that supplemental recommendations can be provided, if appropriate.

Grand Junction Lincoln DeVore makes no warranty, either expressed or implied, as to the findings, recommendations, specifications or professional advice, except that they were prepared in accordance with generally accepted professional engineering practice in the field of geotechnical engineering.









	Northeast Corner	of Filing #6			BLOW	SOIL	
SOIL	BORING ELEVATION:		AUGER/TOOLS: 4" od	SOLID	COUNT	DENSITY	WATER
G		DESCRIPTION			/inch	pcf	%
	SURFACE SO	LS REWORKED by PREV	IOUS AGRICULTURE		· · · · · ·		
11		DESSICATED					
		STRATIFIED	DRY				
1	CL-ML SILTY CLAY M	METASTABLE STRATA	H. SULFATES	ST		93.6	6.5%
	I SI EXPANSIVE	E		5	4/6	94.0	7.8%
			SL MOIST	SPT	5/6		7 4%
	4	ALLUVIAL/DEBRIS FAN DI	EPOSITS		6/6		
11	an inche i	OW to MEDIUM DENSITY	/		0.0	0.0	
	CI LEAN CLAY		V MOIST	SPT	2/6		20.6%
	IL COMPRESSIBI	IF	1. 110101	10	4/6		20.0 1
Π			U I		5/6		
11		SOFTIODIA			5/0	1.1	1 1 1
					_		_
				OT		00.0	00.00
Н	UL LEAN CLAT			01 4E		90.0	20.2%
+	II COMPRESSIBL			15		12 -2	
ł	FREE WATER - S	SANDY STRATIFIED)				- C. C.
					-	10	
	FLOWING SA	ANDS (2) 18.				-	1250
	A	ALLUVIAL/DEBRIS FAN DE	POSITS				1.1
				20	i		
							-
		V. SOFT to D	DRILL				
	н	HOLE SQUEEZED SHUT					
11				25			
\$							
11	WX KM, MANCOS SHA						
	CL LEAN CLAY S	STIFF to DRILL				- C	
	III EXPANSIVE						
	11	NCREASING DENSITY w/	DEPTH	30			
Ĺ	TD 28	1					
		-	-				
		Blow Counts	are counted for each	35			
		6 inches of sa	ampler penetration.				
		Fr	ee Water @ 15'		_		
		Dui	ing Drilling 2-7-2	001			
							DAT
			LUG UF SUE	JOUKH/	ACE	EXPLO	KAII



GRAND JUNCTION LINCOLN - DeVORE, Inc. Geotechnical Consultants

Grand Junction, Colorado

GRAND JUNCTION, COLORADODONADADateGrand Junction, Colorado2-26-2001Job No.Drawn88484-GJEMM



GRAND JUNCTION LINCOLN - DeVORE, Inc. **Geotechnical Consultants** Grand Junction, Colorado

GRAND JUNCTION, COLORADO

DONA	Date	
Grand Junctio	2-26-2001	
Job No.	Drawn	
88484-GJ EMM		

				BORING NO.	4	DRILL	GJLD C	ME-46B		100		
			Northeast Corn	er of Filing #6						BLOW	SOIL	
PTH	SOIL	BOR	UNG ELEVATION			AUGE	R/TOOLS:	4" od, S	OLID	COUNT	DENSITY	WATER
FT.)	LOG			DE	SCRIPTION					/inch	pcf	%
			SURFACE S	DILS REWOR	KED by PRE	EVIOUS A	GRICUL	TURE				
_	IN I	CL-ML	SILTY CLAY	METASTABI	E STRATA	DESS	SICATED)	-			
4		N I										
_		CL	LEAN CLAY			H. SL	ILFATES	5	ST		93.4	5.7%
5_	íu.	1	SI. EXPANSI	VE	STRATIFI	ED	SI. MC	DIST	5	5/6	93.6	11.1%
	ΙИП	CL-ML	SILTY CLAY						SPT	6/6		5.4%
	1111	11	SI. EXPANSI	VE	METASTA	BLE STR	ATA		<u> </u>	5/6		1 L. L.
	III			COMPRESS	IBLE STRAT	ΓA .			_		-	
	ИIА	CL-ML	SILTY CLAY				SI. MC	DIST	ST		100.4	8.6%
0	IN	15	SI. EXPANSI	VE		H. SL	ILFATES	5	10			
	niii			ALLUVIAL/D	EBRIS FAN	DEPOSIT	S		_			18 °
	IM			IINCREASIN	IG MOISTUR	RE	V. MO	IST			D	
7	ИШ				SOFT to D	RILL				1	· · · · ·	
Т		CL-ML	SILTY CLAY				WET		SPT	3/6		20.0%
15	KL	FREE V	VATER	INCREASING	3 SANDY				15	2/6		
	IN									2/6		
-												1.010
-1		CL	LEAN CLAY		SOFT to D	RILL						d H
		1	COMPRESSI	BLE	STRATIE	=D			ST		97.3	26.3%
20	ILA	CL-ML	SILTY CLAY	Let Let las	Olio III I				20		01.0	20.070
ΞΗ.	ИШ	H	COMPRESS	916								
-1	ШИТ		COMPRESSION			DEDOSIT	e					
-	ИII			ALLOVIADO	CORIO FAIN	DEPUSIT	3					10.01
-	ПИТ			V COFT I-								
	ИII			V. SOFT to L	JRILL				05			
°-4	пиі								23			
-11	INI	CL-ML	SILTY CLAY	HOLE SQUE	EZED SHUT							
_/I	ГU	11	COMPRESS	BLE								
	NI											
	r u l			V. SOFT to E	DRILL							
<u> </u>	NI								30			
-12	222							1				
	177	Wx Km,	MANCOS SH	IALE	SOFT	H. SU	LFATES			c = -		
	==1	CL	EXPANSIVE	LEAN CLAY								
		111		INCREASING	DENSITY	w/DEPTH		,				
5					Blow Coun	ts are cou	nted for	each	35		-	
_			TD @ 33'		6 inches of	sampler	penetrati	on.				
_						Free Wat	er @	14'				
						uring Dri	lling	2-7-20	01			

LOG OF SUBSURFACE EXPLORATION











The Consolidation Test (ASTM D-2435) Was Run By Subjecting The Soil Specimen To A 'Seating' Load To Remove Slack From The Apparatus And To Provide An Accurate Point Of Beginning.

The Test Begins With The Specimen At Approximate Natural Moisture Content But, The Porous Stones Are Very Moist To Detect Soil Expansion Characteristics At The Light Test Loads, Prior To Inundation.

The Sample Is Inundated With Water At The Seating Load. Any Swell Or Collapse Of The Specimen Is Allowed To Occur And The Loading Is Continued.

After The Maximum Test Load, The Soil Specimen is Unloaded To Measure Rebound And Any Swelling Potential After Consolidation.

	LOAD SUMMARY
110	par SEATING LOAD
110	psf SAMPLE SATURATED
0	% SOIL COLLAPSE
0.00	% SOIL EXPANSION / SWELL D-4546 B
0.70	% SAMPLE REBOUND @ UNLOAD
9.66	% MAXIMUM CONSOLIDATION
8200	psf MAXIMUM TEST LOAD

	INITIAL	MAXIMUM	FINAL
		LOAD	LOAD
SOIL DENSITY (pcf)	99.1	109.3	108.8
SOIL MOISTURE (%)	23.8%	18.8%	19.0%
CONSOLIDATION (%)	-0-	9.66%	8.96%
VOID RATIO (e)	0.669	0.513	0.519
SATURATION (%)	94%	97%	97%

SOIL #:	П — —
SOIL TYPE :	CL
TEST HOLE #:	1@8'
SAMPLE Gs:	2.65
DIAMETER:	2.5"
AREA (inches):	.03409

	SOIL CONSO		ASTM D-2435
	GRAND VIEW GRAND J	SUBDIVISIO	N, Filings 5 & 6 DLORADO
GRAND JUNCTION LINCOLN - DeVORE, Inc.	DON Grand Juncti	ADA on, Colorado	Date 2-26-2001
Geotechnical Consultants Grand Junction, Colorado	Job No. 88484-GJ	Drawn EMM	
	GRAND JUNCTION LINCOLN - DeVORE, Inc. Geotechnical Consultants Grand Junction, Colorado	SOIL CONSC GRAND VIEW GRAND JUNCTION GRAND JUNCTION LINCOLN - DeVORE, Inc. Grand Juncti Geotechnical Consultants Job No. Grand Junction, Colorado	SOIL CONSOLIDATION GRAND VIEW SUBDIVISIO GRAND JUNCTION GRAND JUNCTION LINCOLN - DeVORE, Inc. Grand Junction, Colorado Grand Junction, Colorado Based Stream Based Stream Grand Junction, Colorado Based Stream Based Stream Based Stream Grand Junction, Colorado Based Stream Based Stream Based Stream



The Swell/Settlement Test (ASTM D-4546 Method C) Was Run By Subjecting The Soil Specimen To A Small Load And The Sample Volume Is Held Constant While The Specimen Attempts To Swell, Increasing In Pressure.

The Test Begins With The Specimen At Approximate Natural Moisture Content But, The Porous Stones Are Very Moist To Detect Soil Expansion Characteristics At Constant Sample Volume, Prior To Inundation.

The Apparatus Automatically Increases The Load Until The Specimen Is Exerting A Constant 'Swell Pressure'.

After Achieving a Constant 'Swell Pressure', The Sample Is Inundated With Water. Any AdditionalSwell Or Collapse Of The Specimen Is Allowed To Occur And The Loading Is Continued. After The Maximum Test Load, The Soil Specimen Is Unloaded To Measure Rebound And Develop The Data For Calculating The Soil 'Heave' Potential.

	LOAD SUMMARY
110	psf SEATING LOAD
1025	pst SAMPLE SATURATED
0.63	% SOIL COLLAPSE UPON SATURATION
0.91	% SAMPLE REBOUND @ UNLOAD
6.47	% MAXIMUM CONSOLIDATION
8200	ps! MAXIMUM TEST LOAD

COLLAPSE of 0.7%, DURING SWELL PHASE MAXIMUM 'CONSTANT VOLUME' SWELL TO 660 psf. SWELL PRESSURE 'FELL BACK' TO 500 psf. COLLAPSE of 0.63%, AFTER SAMPLE INUNDATION

	INITIAL	MAXIMUM	FINAL
	D	LOAD	LOAD
SOIL DENSITY (pcf)	94.0	100.3	99.5
SOIL MOISTURE (%)	7.8%	22.7%	23.2%
CONSOLIDATION (%)	-0-	6.47%	5.56%
VOID RATIO (e)	0.760	0.649	0.662
SATURATION (%)	27%	93%	93%

SOIL # 1	
SOIL TYPE : CL-	ML, Qdf
TEST HOLE #: 2@	3'
SAMPLE Gs: 2.6	5
DIAMETER: 2.5	
AREA (inches): .034	409

SOIL	SWELL	JSETT	LEMENT	ASTM	D-4546	C
	the second se	and the second se			and the second se	





GRAND JUNCTION LINCOLN - DeVORE, Inc. Geotechnical Consultants Grand Junction, Colorado



The Swell/Settlement Test (ASTM D-4546 Method C) Was Run By Subjecting The Soll Specimen To A Small Load And The Sample Volume is Held Constant While The Specimen Attempts To Swell, Increasing in Pressure.

The Test Begins With The Specimen At Approximate Natural Moisture Content But, The Porous Stones Are Very Moist To Detect Soll Expansion Characteristics At Constant Sample Volume, Prior To Inundation.

The Apparatus Automatically Increases The Load Until The Specimen Is Exerting A Constant 'Swell Pressure'.

After Achieving a Constant 'Swell Pressure', The Sample Is Inundated With Water. Any AdditionalSwell Or Collapse Of The Specimen Is Allowed To Occur And The Loading Is Continued. After The Maximum Test Load, The Soil Specimen Is Unloaded To Measure Rebound And Develop The Data For Calculating The Soil 'Heave' Potential.

0	LOAD SUMMARY
110	pst SEATING LOAD
1025	per SAMPLE SATURATED
2.06	% SOIL COLLAPSE UPON SATURATION
1.78	% SAMPLE REBOUND @ UNLOAD
16.12	% MAXIMUM CONSOLIDATION
8200	psf MAXIMUM TEST LOAD

COLLAPSE of 0.14%, DURING SWELL PHASE MAXIMUM 'CONSTANT VOLUME' SWELL TO 460 psf. SWELL PRESSURE 'FELL BACK' TO 360 psf. COLLAPSE of 2.06%, AFTER SAMPLE INUNDATION

	INITIAL	MAXIMUM	FINAL
	a lun sin	LOAD	LOAD
SOIL DENSITY (pcf)	93.6	111.2	109.2
SOIL MOISTURE (%)	11.1%	18.4%	18.4%
CONSOLIDATION (%)	-0-	16.12%	14.34%
VOID RATIO (e)	0.787	0.504	0.504
SATURATION (%)	38%	98%	98%

GRAND JUNCTION

LINCOLN - DeVORE, Inc.

Geotechnical Consultants Grand Junction, Colorado

SOIL #:	1
SOIL TYPE :	ML-CL, Qdf
TEST HOLE #:	4 @ 3'
SAMPLE Gs:	2.68
DIAMETER:	2.5"
AREA (inches):	.03409

SOIL SWELL/SETTLEMENT ASTM D-4546 C

GRAND VIEW	l, Filings 5 & 6		
GRAND J	UNCTION, CO	LORADO	
DON	ADA	Date	
Grand Junction, Colorado		2-26-200	
Job No. Drawn 88484-GJ EMM			

25

CAN BE STOLEN STOLEN STOLEN 1 () (- HU () () Ф SAMPLE VOID RATIO 0.55 271 GR. 5 · · · • • • · • 818 811 311 TEASTER 0.45 100 10000 1000 APPLIED TEST LOAD - psf 2 CONSOLIDATION/SWELL **ENALL PRESSURE REDUCTION** WINO COLLAPSE CONSTANT VOLUME 0 11011 TESTLOAD -1 11.1 111111111 .2 PERCENT (2.4.4.1 100 1000 10000 APPLIED TEST LOAD - psf

6 ° L

The Swell/Settlement Test (ASTM D-4548 Method C) Was Run By Subjecting The Soil Specimen To A Small Seating' Load. The Porous Stones Are Very Moist And The Sample Immediately Begins To 'Heave'. The Sample Heave' is Restrained By The Test Apparatus.

The Specimen Is Quickly Inundated With Water. The Specimen Attempts To Heave, Increasing The Pressure Against The Apparatus. The Apparatus Automatically Increases The Load Applied To The Sample Until The Specimen Is Exerting A Constant 'Swell Pressure'.

After The Constant 'Swell Pressure Is Achieved, Any Further Movement is Noted. The Loading Is Continued.

After The Maximum Test Load, The Soll Specimen Is Unloaded To Measure Rebound And Develop The Data For Calculating The Soil 'Heave' Potential.

	LOAD SUMMARY
110	psf SEATING LOAD
110	psf SAMPLE SATURATED
0	% SOIL COLLAPSE UPON SATURATION
1.81	% SAMPLE REBOUND @ UNLOAD
3.16	% MAXIMUM CONSOLIDATION
8200	psi MAXIMUM TEST LOAD

NO SAMPLE COLLAPSE DURING SWELL PHASE MAXIMUM 'CONSTANT VOLUME' SWELL TO 1140 psf. SWELL PRESSURE 'FELL BACK' TO 440 psf.

	INITIAL	MAXIMUM	FINAL
		LOAD	LOAD
SOIL DENSITY (pcf)	108.7	111.9	110.2
SOIL MOISTURE (%)	17.7%	18.0%	18.9%
CONSOLIDATION (%)	-0-	3.16%	1.35%
VOID RATIO (e)	0.539	0.495	0.518
SATURATION (%)	88%	98%	98%

GRAND JUNCTION

LINCOLN - DeVORE, Inc.

Geotechnical Consultants

Grand Junction, Colorado

SOIL #:	Ш
SOIL TYPE :	CL, Wx Km
TEST HOLE #:	3 @ 13'
SAMPLE Gs:	2.68
DIAMETER:	2.5"
AREA (inches):	.03409

SOIL SWELL/SETTLEMENT ASTM D-4546 C



35

TREASURER'S CERTIFICATE OF TAXES DUE

Date: 02/22/2001

Certificate No: 107181

STATE OF COLORADO COUNTY OF MESA

I, the undersigned do hereby certify that the entire amount of taxes and assessments due upon the real estate or personal property described below, and all sales of the same for unpaid taxes or assessments shown by the books in my office, from which the same may still be redeemed, with the amount required for redemption, are as noted herein:

Title Co Seller Lender	:	WESTERN COLORADO DONADA TBD	TITLE	Order #: Buyer : Ordered:	01001063 DONADA AH	1.00	
Tax Year Schedule	: #:	2000 2943-062-35-018					

Description:

LOT 1 BLK 4 GRAND VIEW SUBDIVISION FIL NO FOUR SEC 6 1S 1E - 12.53AC

\$

Base Tax Amounts Paid: 00 REAL

821.13

Total Due

0.00 ______

BEFORE PAYING TOTAL DUE, PLEASE CALL FOR UPDATED FIGURES **IF PENALTY IS DUE OR IF THERE ARE OUTSTANDING TAX SALES**

\$

-- Continued --



2943-062-35-018 Tax Charges Dis	tribution for	Taxing Year	`00 :		
Description	Rate	Amount	Description	Rate	Amount
COLO RIVER MESA COUNTY GRAND JCT SCH DST 51 LIBRARY UTE WATER SCH D51BOND MC TX CRED* GJ TMLR*	$\begin{array}{c} 0.2830 \\ 22.7380 \\ 8.0000 \\ 36.0150 \\ 3.0000 \\ 2.0000 \\ 6.6200 \\ -0.9160 \\ -1.5700 \end{array}$	3.05 245.12 86.24 388.25 32.34 21.56 71.36 -9.87 -16.92			
			Totals>	76.1700	821.13

Totals ---->

76.1700



ENA M. HARRISON lesa County Treasurer y: 00 M 1

CERTIFIED DATE

February 22, 2001

1. 1

Project Narrative for:

GRAND VIEW, FILING FIVE and FILING SIX -FINAL

FEBRUARY 15, 2001

Prepared for:

Donada, Inc 626 Grand View Drive Grand Junction, Colorado 81506

Prepared by:

Atkins and Associates, Inc. 518 28 Road, Suite B-105, P.O. Box 2702 Grand Junction, Colorado 81502 (970) 245-6630

GRAND VIEW SUBDIVISION, FILING NO. FIVE and FILING NO. SIX

PROJECT SUMMARY

Grand View Subdivision, Filing No. Five, is located south and east of Filing No. Four. This phase of the development contains 21 single family residential lots on 6.33 acres resulting in a density of 3.32 dwelling units per acre.

Grand View Subdivision, Filing No. Six, is located east of Filing No. Four. This phase of the development contains 23 single family residential lots on 6.39 acres resulting in a density of 3.59 dwelling units per acre.

Primary access to Filing No. Five is from Ridge Drive to the north and from Hawthorn Avenue via E. Pagosa Drive to the south. Eventually, primary access will also be from Cortland Avenue to the north when Cortland Avenue is extended from 28 Road to the east. Cortland Avenue shall be a 60-foot wide Urban Residential Collector extending along the north side of the site from the west to the east providing future access to Matchett Park. Interior roadways shall be 44-foot wide Urban Residential Streets with a 6'-6" roll over cub, gutter and sidewalk.

Primary access to Filing No. Six is from Ridge Drive to the south. Eventually, primary access will also be from Cortland Avenue to the north when Cortland Avenue is extended from 28 Road to the east. Cortland Avenue shall be a 60-foot wide Urban Residential Collector extending along the north side of the site from the west to the east providing future access to Matchett Park. Interior roadways shall be 44-foot wide Urban Residential Streets with a 6'-6" roll over cub, gutter and sidewalk.

Existing utilities shall be extended from Grand View Subdivision, Filings No. One and Three to serve Filing No. Five and Filing No. Six. All utility infrastructure elements including water, sanitary sewer, electric, gas, telephone, and cable TV are available within previous phases.

Irrigation water will be provided by a zoned pressurized delivery system which will create water conservation. A central pumping facility has been located within the Private Open Space near the southeast corner of Filing No. One. Irrigation to serve Filing No. Five will be extended from Filings One and Three. Irrigation to serve Filing No. Six will be extended from Filings Three, Four and Five.

A Final Drainage Plan for Filing No. Five and Filing No. Six is submitted herein and indicates that the drainage infrastructure to serve the entire Grand View Development was constructed with Filings One and Two. No additional drainage system is needed for this phase.

*
FINAL DRAINAGE PLAN

FOR

Grand View Subdivision, Filing No. Five and Filing No. Six

February 15, 2001

Prepared for:

Donada, Inc. 626 Grand View Drive Grand Junction, CO 81506

Prepared by:

Atkins and Associates, Inc 518 28 Road, Suite B-105, P.O. Box 2702 Grand Junction, Colorado 81502 (970) 245-6630

I hereby certify that this Final Drainage Plan was prepared under my direct supervision. Prepared by: Richard Richato L. Atkins, P.E. Stars of Colorado #12291

Project Location and Description

Grand View Subdivision is located ¼ mile north of Patterson Road, east of 28 Road in the City of Grand Junction. The entire project contains approximately 64.8 acres and is planned for an ultimate buildout of 200 single family residential lots.

The first four phases of the development Grand View Subdivision, Filings One, Two, Three, and Four are complete and in place. These phases of the projects contain approximately 52.27 acres and 154 single family residential lots.

The original Master Drainage Study for Grand View Subdivision (Reference 1) was prepared in July of 1994 and was submitted to the City of Grand Junction with Filing No. One. The Master Drainage Study evaluated the entire development including runoff from areas outside of the project site. The study used the US Army Corps of Engineers HEC1 Flood Hydrograph Package to determine flow rates at various locations.

(Addendum #1) to the Master Drainage Study of Grand View Subdivision (Reference 2) was prepared in June of 1996 and was submitted to the City of Grand Junction with Filing No. Two. This Addendum re-evaluated the original HEC1 runs based on updated design parameters by the City of Grand Junction.

(Addendum #2) to the Master Drainage Study of Grand View Subdivision (Reference 3) was prepared in November of 1996 and was submitted to the City of Grand Junction during the construction of Filing No. Two. This Addendum re-evaluated the subdivision's drainage infrastructure requirements based on no onsite detention. As a result all but one of the onsite detention ponds were eliminated. Stormwater runoff is collected and conveyed by storm sewer systems in Filings One and Two to the southwest corner of the project where it is directed to the City of Grand Junction's existing areawide detention pond.

(Revisions to the Overall Drainage Plan) Statement of Impact to the Master Drainage Study of Grand View Subdivision was prepared in December of 1997 and was submitted to the City of Grand Junction during the engineering design and platting of Filing No. Four.

Runoff Direction and Containment

All remaining undeveloped portions of the project will continue to be served by existing stormsewer systems within Filings One and Two as originally planned. As shown on the Final Drainage Plan for Grand View Subdivision, Filing No. Five and Filing No. Six will collect and convey runoff via surface drainage to the southwest corner of the Grand View development. From this point the runoff combines with flow from Dawn Subdivision and is discharged to the aforementioned areawide detention pond.

Runoff from Grand View Subdivision, Filing No. Five is routed by overlot grading and streets to the intersection of Tamarron Drive and Hawthorn Avenue. The runoff continues down Hawthorn Avenue where it is intercepted by inlets at the intersection of Hawthorn Avenue and East Pagosa Drive. From this point the runoff is conveyed to the southwest corner of the project where it is directed to the City of Grand Junction's existing areawide detention pond.

Runoff from Grand View Subdivision, Filing No. Six is routed by overlot grading and streets to the intersection of Tamarron Drive and Ridge Drive. The runoff then continues down Ridge Drive where it is intercepted by inlets at the intersection of Ridge Drive and Grand View Drive. From this point the runoff is conveyed to the southwest corner of the project where it is directed to the City of Grand Junction's existing areawide detention pond.

Conclusions and Recommendations

The street design and lot configurations within Grand View Subdivision, Filing No. Five and Filing No. Six are consistent with the approved Overall Development Plan therefore the existing stormsewer infrastructure is sufficient to serve this phase of development. No other stormsewer improvements are required for Filing No. Five or Filing No. Six.

References

- Master Drainage Study of Grand View Subdivision, Prepared by LANDesign LTD., Grand Junction, Colorado, July 1994.
- 2. (Addendum #1) To The Master Drainage Study of Grand View Subdivision, Prepared by LANDesign LLC., Grand Junction, Colorado, June 1996.
- (Addendum #3) To The Master Drainage Study of Grand View Subdivision, Prepared by Atkins and Associates, Inc., Grand Junction, Colorado, November 1996.
- <u>Revisions to The Overall Drainage Plan, Statement of Impact to the Master Drainage</u> <u>Study of Grand View Subdivision</u>, Prepared by Atkins and Associates, Inc., Grand Junction, Colorado, December of 1997.



G:\Grand View 5\5-60PLAN.owg Twe Feb 27 07 57:42 2001 Atkins and Associates. Enc. (Sateway)

			N	THAY BUL BARRIE THE ENGINEER THE ENGINEER		
				RS		C
SHEET OF 1	ATKINS AND ASSOCIATES, INC. 518 28 ROAD, SUITE B-105, P.O. BOX 2702 GRAND JUNCTION, COLORADO 81502 970-245-8630 FAX 970-245-2355	GRAND VIEW SUBDIVISION, FILING NO. FIVE/SIX	FILING FIVE/SIX DRAINAGE PLAN	DRAWN BY: DOC CHECKED BY: RLA DATE: 02/28/01 PROJECT NO.:	50 Horiž: 1" Vert: 1"	" = 50" " = 5"

.....

÷ (

pris

5 2

COMMITMENT FOR TITLE INSURANCE ISSUED BY

STEWARTT TITLE GUARANTY COMPANY

STEWART TITLE GUARANTY COMPANY, A Texas Corporation, herein called the Company, for valuable consideration, hereby commits to issue its policy or policies of title insurance, as identified in Schedule A, in favor of the proposed Insured named in Schedule A, as owner or mortgagee of the estate or interest covered hereby in the land described or referred to in Schedule A, upon payment of the premiums and charges therefor; all subject to the provisions of Schedules A and B and to the Conditions and Stipulations hereof.

This Commitment shall be effective only when the identity of the proposed Insured and the amount of the policy or policies committed for have been inserted in Schedule A hereof by the Company, either at the time of the issuance of this Commitment or by subsequent endorsement.

This Commitment is preliminary to the issuance of such policy or policies of title insurance and all liability and obligations hereunder shall cease and terminate six months after the effective date hereof or when the policy or policies committed for shall issue, whichever first occurs, provided that the failure to issue such policy or policies is not the fault of the Company.

Signed under seal for the Company, but this Commitment shall not be valid or binding until it bears an authorized Countersignature.

IN WITNESS WHEREOF, Stewart Title Guaranty Company has caused its corporate name and seal to be hereunto affixed by its duly authorized officers on the date shown in Schedule A.

Chairman of the Boan

Countersigned:

artury uthorized Countersignature

WESTERN COLORADO TITLE COMPANY P.O. Box 178 Grand Junction, CO 81501 (970) 243-3070 Agent ID #060091 STEWART TITLE GUARANTY COMPANY



President

Order No. 01001063

Order Number: 01001063

- 1. Effective date: January 24, 2001 at 8:00 A.M.
- Policy or Policies to be issued: (a) A.L.T.A. Owner's (Standard)

Proposed Insured:

(b) A.L.T.A. Loan

Proposed Insured:

(c) Leasehold

Proposed Insured:

- 3. The estate or interest in the land described or referred to in this Commitment and covered herein is fee simple
- 4. Title to the fee simple estate or interest in said land is at the effective date hereof vested in: DONADA, INC., A COLORADO CORPORATION
- 5. The land referred to in this Commitment is described as follows:

Lot 1 in Block 4 of GRAND VIEW SUBDIVISION FILING NO. FOUR, Mesa County, Colorado

Legal description subject to change upon the recordation of GRAND VIEW SUBDIVISION FILING NO. FIVE AND GRAND VIEW SUBDIVISION FILING NO. SIX.

Purported Address:

VACANT VACANT GRAND JUNCTION, CO 81506 Amount of Insurance \$ 200.00

\$

\$

STATEMENT OF CHARGES These charges are due and payable before a Policy can be issued.

PREMIUM RESEARCH FEE OWNERS: \$200.00 MORTGAGE: TAX CERT: \$.15.00 Order Number: 01001063

REQUIREMENTS

The following are the requirements to be complied with:

- Item (a) Payment to or for the account of the grantors or mortgagors of the full consideration for the estate or interest to be insured.
- Item (b) Proper instrument(s) creating the estate or interest to be insured must be executed and duly filed for record, to wit:
 - 1. Properly executed plat of GRAND VIEW SUBDIVISION, FILING NO. FIVE.
 - 2. Properly executed plat of GRAND VIEW SUBDIVISION, FILING NO. SIX.

Order Number: 01001063

EXCEPTIONS

SCHEDULE B Section 2

The policy or policies to be issued will contain exceptions to the following unless the same are disposed of to the satisfaction of the Company:

- 1. Rights or claims of parties in possession, not shown by the public records.
- 2. Easements, or claims of easements, not shown by the public records.
- 3. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, and any facts which a correct survey and inspection of the premises would disclose and which are not shown by the public records.
- 4. Any lien, or right to a lien, for services, labor or material heretofore or hereafter furnished, imposed by law and not shown by the public records.
- 5. Defects, liens, encumbrances, adverse claims or other matters, if any, created, first appearing in the public records or attaching subsequent to the effective date hereof, but prior to the date the proposed insured acquires of record for value the estate or interest or mortgage thereon covered by this commitment.
- 6. Unpatented mining claims; reservations or exceptions in patents, or an act authorizing the issuance thereof; water rights, claims or title to water.
- 7. Taxes for the year 2001, a lien but not yet due or payable.
- 8. All easement(s) across herein described property as shown on the Plat of said subdivision, together with incidental purposes.
- 9. Reservations and exceptions in Patents, or Acts authorizing the issuance thereof, including the reservation of the right of proprietor of a vein or lode to extract and remove his ore therefrom should the same be found to penetrate or intersect the premises as reserved in United States Patent recorded October 21, 1891 in Book 11 at Page 119.
- 10. Restrictions, which do not contain a forfeiture or reverter clause, but omitting restrictions, if any, based on race, color, religion, or national origin, as contained in instrument recorded May 9, 1995 in Book 2143 at Page 753 and all amendments thereto and including the terms and conditions thereof.
- 11. Easement and right-of-way appurtenant to Walker Field Airport, for the passage of all aircraft in the navigable airspace above subject property as granted to the Walker Field, Colorado, Public Airport by instrument recorded July 9, 1999 in Book 2608 at Page 633, together with incidental purposes.
- 12. Terms, conditions, stipulations, obligations and provisions of the Ordinance No. 3156 recorded July 16, 1999 in Book 2610 at Page 976.
- 13. Terms, conditions, stipulations, obligations and provisions of the Development Improvements Agreement recorded February 15, 2000 in Book 2679 at Page 545.

DISCLOSURES

Pursuant to C.R.S. 10-11-122, notice is hereby given that:

San 1 A

- (A) THE SUBJECT REAL PROPERTY MAY BE LOCATED IN A SPECIAL TAXING DISTRICT;
- (B) A CERTIFICATE OF TAXES DUE LISTING EACH TAXING JURISDICTION SHALL BE OBTAINED FROM THE COUNTY TREASURER OR THE COUNTY TREASURER'S AUTHORIZED AGENT;
- (C) INFORMATION REGARDING SPECIAL DISTRICTS AND THE BOUNDARIES OF SUCH DISTRICTS MAY BE OBTAINED FROM THE BOARD OF COUNTY COMMISSIONERS, THE COUNTY CLERK AND RECORDER, OR THE COUNTY ASSESSOR.

Note: Colorado Division of Insurance Regulations 3-5-1, Paragraph C of Article VII requires that "Every title entity shall be responsible for all matters which appear of record prior to the time of recording whenever the title entity conducts the closing and is responsible for recording or filing of legal documents resulting from the transaction which was closed." Provided that Western Colorado Title Company conducts the closing of the insured transaction and is responsible for recording the legal documents from the transaction, exception number 5 will not appear on the Owner's Title Policy and the Lender's Title Policy when issued.

Note: Affirmative Mechanic's Lien Protection for the Owner may be available (typically by deletion of Exception No. 4 of Schedule B, Section 2 of the Commitment from the Owner's Policy to be issued) upon compliance with the following conditions:

- A. The land described in Schedule A of this commitment must be a single family residence, which includes a condominium or townhouse unit.
- B. No labor or materials have been furnished by mechanics or materialmen for purposes of construction on the land described in Schedule A of this Commitment within the past 6 months.
- C. The Company must receive an appropriate affidavit indemnifying the Company against unfiled mechanic's and materialmen's liens.
- D. The company must receive payment of the appropriate premium.
- E. If there has been construction, improvements or major repairs undertaken on the property to be purchased, within six months prior to the Date of the Commitment, the requirements to obtain coverage for unrecorded liens will include: disclosure of certain construction information; financial information as to the seller, the builder and/or the contractor; payment of the appropriate premium; fully executed Indemnity agreements satisfactory to the company; and, any additional requirements as may be necessary after an examination of the aforesaid information by the Company.

No coverage will be given under any circumstances for labor or material for which the insured has contracted for or agreed to pay.

NOTHING HEREIN CONTAINED WILL BE DEEMED TO OBLIGATE THE COMPANY TO PROVIDE ANY OF THE COVERAGES REFERRED TO HEREIN UNLESS THE ABOVE CONDITIONS ARE FULLY SATISFIED.

Order No. 01001063

	Client:	Travis Jordan		Report No: 3						
ù.	Project:	Grandview Subdivision, Filing 4					Date of Test:	10-7-99		
	Location						Test By: RI			
			0-10				GJLD Job N	o: 87684-GJ		
	TEST TYPE:	Nuclear (ASTM Nuclear (ASTM 2922) 2922) Backscatter Direct Trans. X	(ASTM D-1556) Sand Cone	SPECIF	ICATIONS: Pr	roject:	City: X	County:	State:	
	Test No.	Location of Test			COMPACTION %	COMPA SPEC. 9	C. MOISTURE 6 CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE
	40	Existing sewer MH, sta 0+00, E. Pagosa @ FS	G		95	95	14.6	+-2	115.2@14.7	С
	41	SS, Lot 13, Blk 2 @ FSG		1	95	95	14.3	+-2	115.2@14.7	с
	42	SS, Lot 1, Blk 3 @ FSG			99	95	14.4	+-2	115.2@14.7	с
	43	SS, Lot 12, Blk 2 @ FSG			97	95	13.6	+-2	115.2@14.7	с
	44	Sewer main between existing MH & MH EP1 @	FSG		99	95	14.7	+-2	115.2@14.7	с
	45	MH EP1 @ FSG			98	95	14.7	+-2	115.2@14.7	с
	46	SS, Lot 11, Blk 2 @ FSG			98	95	14.0	+-2	115.2@14.7	с
	47	Sewer main between MH EP1 & C1 @ FSG			97	95	15.7	+-2	115.2@14.7	c
	48	SS, Lot 5, Blk 3 (off Conifer Ct) @ FSG			97	95	15.2	+-2	115.2@14.7	с
	49	MH C1 @ FSG			97	95	14.7	+-2	115.2@14.7	c
	50	SS, Lot 2, Blk 3 @ FSG			96	95	13.4	+-2	115.2@14.7	с
	51	SS, Lot 3, Blk 3 @ FSG			96	95	13.5	+-2	115.2@14.7	с
0	52	SS, Lot 4, Blk 3 @ FSG			97	95	14.5	+-2	115.2@14.7	с
	DISTRIE	BUTION: Page 1 of 2	KEY: • Fails Compac	tion Spec.	C = Cohesi	ive	GRAND JUNCTIC	ON LINCOLN De	VORE, INC.	_
	1-Client	1-Ute Water	** Fails Moistu	ure Spec.	NC = NonCo	hesive	BY:	<u>All</u>		
l	1-Subdiv	Env 1-City of GJ	S Standard Pr	octor	ABC = Aggreg	ate Base	FILL DENSITY	Y TEST DAIL	Y REPORT	
	1-Atkins	& Assoc.	M Modified Pr	roctor	PR = Pit Run	ı				
	NOTE: locations Lincoln l uniform the fill a	Results indicate in-place soil densities at the and depths identified above. Grand Junction DeVore has relied on the contractor to provide mix placement and compactive effort throughout rea.	Nuclear Density Testing of other coarse grained soils r correction of Unit Weight Content, ASTM D-4718, contain oversize particles in the limits of ASTM D-4718	'pit run' or may require And Water If soils n excess of 8	Nuclear Density performed for a control and is with visual and p methods.	Testing is cceptance combined enetration		GRAND JUNCTION LINCOLN DeVORE	Geote Er Ge	echnical ngineers- eologists

Clien	t: Travis Jordan		Report No: 3						
Proje	ct: Grandview Subdivision, Filing 4	2				Date of Test:	10-7-99		
Locat	ion:					Test By: RI	-		
						GJLD Job N	o: 87684-GJ	<u> </u>	
TEST TYPE	Nuclear (ASTM Nuclear (ASTM 2922) 2922) Backscatter Direct Trans. X	(ASTM D-1556) Sand Cone	SPECIFI	CATIONS: Pr	roject:	City: X	County:	State:	
Test No.	Location of Test			COMPACTION %	COMPAC SPEC. %	MOISTURE CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE
53	SS, Lot 10, Blk 2 @ FSG			99	95	12.3	+-2	115.2@14.7	С
54	Sewer main between MH EP1 & MH EP2 @ FS	G		96	95	14.2	+-2	115.2@14.7	с
55	SS, Lot 5, Blk 3 (Off E Pagosa) @ FSG			96	95	15.0	+-2	115.2@14.7	с
56	SS, Lot 6, Blk 3 @ FSG			97	95	13.8	+-2	115.2@14.7	с
57	SS, Lot 11, Blk 1 @ FSG			98	95	14.5	+-2	115.2@14.7	с
58	SS, Lot 12, Bik 1 @ FSG			97	95	14.2	+-2	115.2@14.7	с
59	MH EP2 @ FSG			96	95	14.5	+-2	115.2@14.7	с
60	MH GV1 @ -2' BSG			99	95	14.7	+-2	115.2@14.7	с
<u> </u>					L				<u> </u>
DIST	RIBUTION: Page 2 of 2	KEY: * Fails Compac	ction Spec.	C = Cohesi	ve	$\frac{\text{GRAND JUNCTIC}}{RL}$	N LINCOLN DO	VORE INC.	
1-Clie	ent I-Ute Water	** Fails Moist	ure Spec.	NC = NonCo	hesive	BY:	4 (11)	ll de	
1-Sub	div Env 1-City of GJ	S Siandard Pr	rocior	ABC = Aggreg	ate Base	FILL DENSITY	TEST DAIL	Y REPORT	
1-Atk	ins & Assoc.	M Modified P	roclor	PR = Pit Run		· · · · · · · · · · · · · · · · · · ·			
NOTI locati Linco unifor the fil	E: Results indicate in-place soil densities at the ons and depths identified above. Grand Junction In DeVore has relied on the contractor to provide rm mix placement and compactive effort throughout II area.	Nuclear Density Testing of 'pit run' or other coarse grained soils may require correction of Unit Weight And Water Content, ASTM D-4718. If soils contain oversize particles in excess of the limits of ASTM D-4718			B	GRAND JUNCTION LINCOLN DeVORE	Geoto Er Ge	chnical gineers- cologists	

,	Client:	Travis Jordan					Report No:	4		
1	Project:	Grandview Subdivision, Filing 4		-			Date of Test:	10-11-99		
1	Location	:					Test By: LS	l		
1							GJLD Job No	: 87684-GJ		
	TEST TYPE:	Nuclear (ASTMNuclear (ASTM 2922)2922) BackscatterDirect Trans. X	(ASTM D-1556) Sand Cone	SPECIE	TICATIONS: Pr	roject:	City: X	County:	State:	
	Test No.	Location of Test			COMPACTION %	COMPAC SPEC. %	MOISTURE	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE
	61	Sewer MH GV2 @ 2' BSG			97	95	14.0	+-2	120.2@13.2	С
_	62	Sewer main between MH GV2 & GV5 @ 2' BS	3		97	95	14.1	+-2	120.2@13.2	c
-	63	Sewer main between MH GV1 & GV2 @ 2' BS	G		98	95	12.9	+-2	120.2@13.2	с
	64	SS, Lot 1, Blk 1 @ 2' BSG			98	95	13.9	+-2	120.2@13.2	с
	65	Sewer main existing MH, S side @ FSG			95	95	13.4	+-2	120.2@13.2	с
	66	Sewer main existing MH @ FSG			95	95	14.5	+-2	120.2@13.2	с
	67	SS, lot 1, Blk 2 @ 2' BSG			99	95	12.8	+-2	120.2@13.2	с
	68	SS, Lot 5, Blk 2 @ 2' BSG			97	95	13.5	+-2	120.2@13.2	с
	69	SS, Lot 4, Blk 2 @ 2' BSG			97	95	13.6	+-2	120.2@13.2	с
	70	SS, Lot 3, Bik 2 @ 2' BSG			95	95	14.5	+-2	120.2@13.2	с
	71	Sewer MH GV5 @ 2' BSG			96	95	13.3	+-2	120.2@13.2	c
	72	SS, Lot 2, Blk 2 @ 2' BSG			98	95	12.9	+-2	115.2@14.7	с
4	73	SS, Lot 2, Blk 1 @ 2' BSG			99	95	14.1	+-2	115.2@14.7	с
	DISTRIE	BUTION: Page 1 of 3	KEY: * Fails Compact	ion Spec.	C = Cohesi	ve g	GRAND JUNCTIO	N LINCOLN D	VORE, INC.	
	1-Client	1-Ute Water	** Fails Moistur	re Spec.	NC = NonCol	hesive	BY:	<u>A</u>	lla	2
	I-Subdiv	Env 1-City of GJ	S Standard Pro	ctor	ABC = Aggrege	ate Base]]	FILL DENSITY	TEST DAIL	Y REPORT	
	I-Atkins	& Assoc.	M Modified Pro	octor	PR = Pit Run					
	NOTE: locations Lincoln I uniform the fill as	Results indicate in-place soil densities at the and depths identified above. Grand Junction DeVore has relied on the contractor to provide mix placement and compactive effort throughout rea.	Nuclear Density Testing of ' other coarse grained soils m correction of Unit Weight A Content, ASTM D-4718. contain oversize particles in the limits of ASTM D-4718	pit run' or ay require and Water If soils excess of	Nuclear Density 7 performed for ac control and is c with visual and per methods.	Testing is complance combined enetration		GRAND JUNCTION LINCOLN DeVORE	Geote Er Ge	chnical igineers- cologists

	Client:	Travis Jordan					Report No:	4		
1	Project:	Grandview Subdivision, Filing 4					Date of Test:	10-11-99		
	Location	1					Test By: LS			
						_	GJLD Job No	: 87684-GJ		
	TEST TYPE:	Nuclear (ASTMNuclear (ASTM 2922)2922) BackscatterDirect Trans. X	(ASTM D-1556) Sand Cone	SPECIE	FICATIONS: Pr	roject:	City: X	County:	State:	
	Test No.	Location of Test			COMPACTION %	COMPA SPEC.	C. MOISTURE CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE
	74	Sewer main between MH GV2 & GV3 @ 2' BG	S		96	95	14.9	+-2	115.2@14.7	с
	75	SS, Lot 6, Blk 2 @ 2' BSG			95	95	14.3	+-2	115.2@14.7	с
-	76	SS, Lot 3, Blk 1 @ 2' BSG			95	95	12.3	+-2	115.2@14.7	с
	77	SS, Lot 7, Blk 2 @ 2' BSG			95	95	14.3	+-2	115.2@14.7	с
	78	SS, Lot 4, Blk 1 @ 2' BSG			99	95	13.1	+-2	115.2@14.7	с
	79	SS, Lot 5, Blk 1 @ 2' BSG			97	95	12.8	+-2	115.2@14.7	с
	80	SS, Lot 6, Blk 1 @ 2' BSG			95	95	13.5	+-2	115.2@14.7	с
	81	Sewer MH GV3 @ 2' BSG			96	95	12.8	+-2	115.2@14.7	с
	82	Sewer main between MH GV3 & GV4 @ 2' BS	3		95	95	15.1	+-2	115.2@14.7	с
	83	SS, Lot 7, Blk 1 @ 2' BSG			95	95	13.8	+-2	115.2@14.7	с
	84	SS, Lot 8, Blk 1 @ 2' BSG			95	95	13.2	+-2	115.2@14.7	с
ام	85	SS, Lot 8, Blk 2 @ 2' BSG			96	95	15.5	+-2	115.2@14.7	с
4	86	SS, Lot 9, Blk 1 @ 2' BSG			98	95	14.3	+-2	115.2@14.7	с
	DISTRIE	BUTION: Page 2 of 3	KEY: * Fails Compact	ion Spec.	C = Cohesi	ve	GRAND JUNCTIO	N LINCOLN De	VORE, INC.	
	1-Client	1-Ute Water	** Fails Moistu	re Spec.	NC = NonCo	hesive	BY:	(III		
	1-Subdiv	Env I-City of GJ	S Standard Pro	ctor	ABC = Aggrega	ate Base	FILL DENSITY	TEST DAIL	Y REPORT	
	1-Atkins	& Assoc.	M Modified Pro	octor	PR = Pit Run					
	NOTE: locations Lincoln I uniform the fill as	Results indicate in-place soil densities at the and depths identified above. Grand Junction DeVore has relied on the contractor to provide mix placement and compactive effort throughout rea.	Nuclear Density Testing of " other coarse grained soils m correction of Unit Weight A Content, ASTM D-4718. contain oversize particles in the limits of ASTM D-4718	pit run' or ay require Ind Water If soils excess of	r Nuclear Density 7 e performed for ac r control and is a with visual and per f methods.	Testing is cceptance combined enetration		GRAND JUNCTION LINCOLN DeVORE	Geote En Ge	echnical agineers- eologists

Client:	Travis Jordan				Report No:	4				
Project:	Grandview Subdivision, F	iling 4					Date of Test:	10-11-99		
Location	Ľ						Test By: LS			
			-				GJLD Job No	: 87684-GJ		
TEST TYPE:	Nuclear (ASTM 2922) Backscatter	Nuclear (ASTM 2922) Direct Trans. X	(ASTM D-1556) Sand Cone	SPECIF	ICATIONS: P	roject:	City: X	County:	State:	
Test No.	Location of Test				COMPACTION %	COMPA SPEC. 9	.C. MOISTURE % CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE
87	SS, Lot 9, Bik 2 @ 2' BSG	1			97	95	15.1	+-2	115.2@14.7	С
88	SS, Lot 10, Blk 1 @ 2' BS	G			99	95	13.4	+-2	115.2@14.7	с
89	Sewer MH GV4 @ 2' BSG	i			98	95	13.1	+-2	120.2@13.2	с
	Rock correction applied to m	actor as required								
	Note contention applied to pr	octor, as requires								
	×									
	κ.									
2 1										
2			*							
DISTRI	BUTION:	Page 3 of 3	KEY: * Fails Compact	ion Spec.	C = Cohes	ive	GRAND JUNCTIO	N LINCOLN De	VORE, INC.	
1-Client	1-Ute Water		** Fails Moistu	re Spec.	NC = NonCo	ohesive	BY:			
1-Subdiv	Env 1-City of GJ		S Standard Pro	ctor	ABC = Aggreg	gate Base	FILL DENSITY	TEST DAIL	Y REPORT	
1-Atkins	& Assoc.		M Modified Pro	octor	PR = Pit Ru	n				
NOTE: locations Lincoln uniform the fill a	Results indicate in-place soil s and depths identified above. DeVore has relied on the contra mix placement and compactive rea.	densities at the Grand Junction actor to provide effort throughout	Nuclear Density Testing of other coarse grained soils m correction of Unit Weight A Content, ASTM D-4718. contain oversize particles in the limits of ASTM D-4718	pit run' or ay require And Water If soils excess of	Nuclear Density performed for a control and is with visual and p methods.	Testing is acceptance combined benetration		GRAND JUNCTION LINCOLN DeVORE	Geota Er G	echnical agineers- cologists

Client:	Travis Jordan						Report No: 5				
Project:	Grandview Subdivision, Filing 4					Date of Test:	10-12-99				
Location	1:					Test By: AF	R, RL				
						GJLD Job No	: 87684-GJ				
TEST TYPE:	Nuclear (ASTM Nuclear (AS 2922) Backscatter Direct Tran	M 2922) (ASTM D-1556) X Sand Cone	SPECIFIC	CATIONS: Pr	oject:	City: X County: State:					
Test No.	Location of Test		C	COMPACTION %	COMPAC SPEC. %	CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE		
90	SS, Lot 1, Blk 1 @ FG		9	98	95	13.2	+-2	115.2@14.7	С		
91	Sewer MH GV2 @ FG		9	96	95	12.7	+-2	115.2@14.7	с		
92	SS, Lot 1, Blk 2 @ FG		9	99	95	12.9	+-2	115.2@14.7	с		
93	Sewer main between MH GV2 & GV5) FG	9	98	95	13.0	+-2	115.2@14.7	с		
94	SS, Lot 5, Blk 2 @ FG		9	97	95	13.0	+-2	115.2@14.7	с		
95	Sewer MH GV5 @ FG		9	99	95	14.2	+-2	115.2@14.7	с		
96	SS, Lot 2, Blk 2 @ FG		9	98	95	12.4	+-2	115.2@14.7	с		
97	SS, Lot 3, Blk 2 @ FG		9	98	95	13.3	+-2	115.2@14.7	с		
98	SS, Lot 4, Blk 2 @ FG		9	97	95	14.0	+-2	115.2@14.7	с		
99	SS, Lot 2, Blk 2 @ FG		9	98	95	12.7	+-2	115.2@14.7	с		
100	SS, Lot 6, Bik 2 @ FG		9	98	95	15.3	+-2	115.2@14.7	с		
101	SS, Lot 3, Blk 1 @ FG		9	98	95	13.6	+-2	115.2@14.7	с		
102	Sewer main between MH GV2 & GV3) FG	9	98	95	14.9	+-2	115.2@14.7	с		
DISTRI	BUTION: Pag	1 of 2 KEY: * Fails Compac ** Fails Moistu	ction Spec. ure Spec.	C = Cohesi NC = NonCo	ve hesive	GRAND JUNCTIO	N LINCOLN De	VORE, INC.	-		
1-Subdiv	v Env 1-City of GJ	S Standard Pr	roctor	ABC = Aggrega	ate Base	FILL DENSITY	TEST DAIL	Y REPORT			
1-Atkins	s & Assoc.	M Modified Pr	roctor	PR = Pit Run							
NOTE: location: Lincoln uniform the fill a	Results indicate in-place soil densities at the sand depths identified above. Grand Junction DeVore has relied on the contractor to provimix placement and compactive effort through the same set of the same	 Nuclear Density Testing of other coarse grained soils a correction of Unit Weight Content, ASTM D-4718. contain oversize particles in the limits of ASTM D-4713 	Nuclear Density Testing of 'pit run' or other coarse grained soils may require correction of Unit Weight And Water Content, ASTM D-4718. If soils contain oversize particles in excess of the limits of ASTM D-4718				GRAND JUNCTION LINCOLN DeVORE	Geoto En G	echnical 1gineers- eologists		

Client:	at: Travis Jordan						Report No: 5				
Project:	Grandview Subdivision,	Filing 4					Date of Test	: 10-12-99			
Location	a:						Test By: A	R, RL			
							GJLD Job N	o: 87684-GJ			
TEST TYPE:	Nuclear (ASTM 2922) Backscatter	Nuclear (ASTM 2922) Direct Trans. X	(ASTM D-1556) Sand Cone	SPECIF	ICATIONS: Pr	roject:	City: X	County:	State:		
Test No.	Location of Test				COMPACTION %	COMPA SPEC.	C. MOISTURE 6 CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE	
103	SS, Lot 4, Blk 1 @ FG				97	95	12.7	+-2	115.2@14.7	с	
104	SS, Lot 7, Blk 2 @ FG				97	95	13.6	+-2	115.2@14.7	c	
105	SS, Lot 5, Blk 1 @ FG				98	95	13.7	+-2	115.2@14.7	с	
106	Sewer MH GV3 @ FG				96	95	15.6	+-2	115.2@14.7	с	
107	SS, Lot 6, Bik 1 @ FG				96	95	12.8	+-2	115.2@14.7	с	
108	SS, Lot 7, Blk 1 @ FG				99	95	12.9	+-2	115.2@14.7	с	
109	Sewer main between MH	GV3 & GV4 @ FG			96	95	14.0	+-2	115.2@14.7	с	
110	SS, Lot 8, Blk 1 @ FG				98	95	14.2	+-2	115.2@14.7	с	
111	SS, Lot 8, Blk 2 @ FG				97	95	12.7	+-2	115.2@14.7	с	
112	SS, Lot 9, Blk 1 @ FG				97	95	14.4	+-2	115.2@14.7	с	
113	SS, Lot 9, Blk 2 @ FG				97	95	12.8	+-2	115.2@14.7	С	
114	Sewer MH GV4 @ FG				97	95	13.8	+-2	115.2@14.7	с	
115	SS, Lot 10, Blk 1 @ FG				100	95	13.8	+-2	115.2@14.7	с	
DISTRI	BUTION:	Page 2 of 2	KEY: • Fails Compa	ction Spec.	C = Cohesi	ve		ON LINCOLN De	VORE, INC.		
1-Client	1-Ute Water		** Fails Moist	ture Spec.	NC = NonCo	hesive	BY:	41/1	1000	e	
1-Subdiv	v Env 1-City of GJ		S Standard P.	roctor	ABC = Aggreg	ate Base	FILL DENSIT	Y TEST DAIL	Y REPORT		
1-Atkins	s & Assoc.		M Modified F	roctor	PR = Pit Run						
NOTE: locations Lincoln i uniform the fill a	Results indicate in-place soi s and depths identified above. DeVore has relied on the cont mix placement and compactiv rea.	l densities at the Grand Junction ractor to provide re effort throughout	Nuclear Density Testing of other coarse grained soils correction of Unit Weight Content, ASTM D-4718 contain oversize particles the limits of ASTM D-471	f 'pit run' or may require And Water I f soils in excess of 8	Nuclear Density 7 performed for as control and is 6 with visual and po- methods.	Testing is cceptance combined enetration		GRAND JUNCTION LINCOLN DeVORE	Geote Er Ge	echnical ngineers- eologists	

Client:	Travis Jordan	helm-later and				Report No:	6		
Project:	Grandview Subdivision, Filing 4					Date of Test:	10-18-99		
Location	:			31.1	_	Test By: AR	RL		
						GJLD Job No	: 87684-GJ		
TEST TYPE:	Nuclear (ASTM Nuclear (ASTM 2922) 2922) Backscatter Direct Trans. X	(ASTM D-1556) Sand Cone	SPECIFI	ICATIONS: Pr	oject:	City: X	County:	State:	
Test No.	Location of Test			COMPACTION %	COMPAC SPEC. 9	C. MOISTURE 6 CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE
116	Water main, sta 8+50, Grandview Dr @ 2' BFG	3		96	95	12.8	+-2	115.2@14.7	с
117	WS, Lots 1 & 2, Blk 1 @ 2' BFG			96	95	13.6	+-2	115.2@14.7	с
118	Water main, sta 0+50, Eldora Ct @ 2' BFG			95	95	13.4	+-2	115.2@14.7	с
119	WS, Lots 1 & 2, Blk 2 @ 2' BFG			95	95	12.9	+-2	115.2@14.7	с
120	WS, Lots 4 & 5, Blk 2 @ 2 BFG			97	95	13.3	+-2	115.2@14.7	с
121	WS, Lot 3, Blk 2 @ 2' BFG			98	95	12.7	+-2	115.2@14.7	С
122	WS, hydrant, Lot 6, Blk 2 @ 2' BFG			93*	95	9.7**	+-2	115.2@14.7	С
123	WS, Lots 6 & 7, Blk 2 @ 2' BFG			100	95	13.0	+-2	115.2@14.7	с
124	Water main, sta 6+50, Eldora Ct @ 2' BFG			97	95	12.9	+-2	115.2@14.7	с
125	WS, Lots 3 & 4, Blk 1 @ 2 BFG			95	95	13.5	+-2	115.2@14.7	с
126	WS, Lots 5 & 6, Bik 1 @ 2 BFG			95	95	15.1	+-2	115.2@14.7	с
127	WS, Lots 7 & 8, Blk 1 @ 2 BFG			97	95	14.3	+-2	115.2@14.7	С
128	Water main, sta 4+50, Grandview Dr @ 2' BFG	3		99	95	13.1	+-2	115.2@14.7	с
DISTRI	BUTION: Page 1 of 2	KEY: • Fails Compact	tion Spec.	C = Cohesi	ve	GRAND JUNCTIO	N LINCOLN De	VORE, INC.	
1-Client	1-Ute Water	** Fails Moistu	re Spec.	NC = NonCo	hesive	BY:	XII.	love	
1-Subdiv	Fire a second seco	S Standard Pro	octor	ABC = Aggrega	ate Base	FILL DENSITY	TEST DAIL	Y REPORT	
1-Atkins	& Assoc.	M Modified Pro	oclor	PR = Pit Run					
NOTE: locations Lincoln uniform the fill a	Results indicate in-place soil densities at the s and depths identified above. Grand Junction De Vore has relied on the contractor to provide mix placement and compactive effort throughout rea.	Nuclear Density Testing of other coarse grained soils m correction of Unit Weight A Content, ASTM D-4718. contain oversize particles in the limits of ASTM D-4718	"pit rua" or hay require And Water If soils nexcess of	Nuclear Density ' performed for as control and is o with visual and po methods.	Testing is exceptance combined enstration	B	GRAND JUNCTION LINCOLN DeVORE	Geota Er G	echnical igineers- cologists

_lient	Travis Jordan				Report No:	6		
Ртојес	Crandview Subdivision, Filing 4				Date of Test:	10-18-99		
Locati	on:				Test By: AR	, RL		
					GJLD Job No	: 87684-GJ	_	
TEST TYPE	Nuclear (ASTMNuclear (ASTM 2922)2922) BackscatterDirect Trans. X	(ASTM D-1556) Sand Cone	SPECIFICATIONS	: Project:	City: X	County:	State:	
Test No.	Location of Test		COMPAC %	CTION COMPA	AC. MOISTURE % CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE
129	WS, Lot 8, Blk 2 @ 2' BFG		100	95	12.7	+-2	115.2@14.7	с
130	WS, hydrant, Lot 8, Blk 2 @ 2' BFG		98	95	13.5	+-2	115.2@14.7	с
131	WS, Lot 9, Blk 2 @ 2' BFG		98	95	13.7	+-2	115.2@14.7	с
132	WS, Lots 9 & 10, Blk 1 @ 2' BFG		95	95	14.4	+-2	115.2@14.7	с
133	Water main, sta 2+50, Grandview Dr @ 2' BFC	3	95	95	13.9	+-2	115.2@14.7	с
134	Water main, sta 0+50, Grandview Dr @ 2' BFC	3	100	95	13.7	+-2	115.2@14.7	с
135	WS, hydrant, Lot 6, Blk 3 @ 2' BFG		98	95	13.6	+-2	115.2@14.7	с
136	Water main, sta 4+50, E. Pagosa Dr @ 2' BFG	ì	95	95	12.7	+-2	115.2@14.7	с
137	WS, hydrant, Lot 1, Blk 3 @ 2' BFG		95	95	13.7	+-2	115.2@14.7	с
138	Water main, sta 1+00, E. Pagosa Dr @ 2' BFG	}	95	95	13.9	+-2	115.2@14.7	с
139	WS, Lots 12 & 13, Blk 2 @ 2' BFG		97	95	16.1	+-2	115.2@14.7	с
122A }	RETEST		96	95	14.6	+-2	115.2@14.7	с
DISTR	IBUTION: Page 2 of 2	KEY: * Fails Compact	ion Spec. C =	Cohesive	GRAND JUNCTIO	N LINCOLN De	VORE, INC.	L
1 Cub		Faris Moisu	ie spec. NC -	A annual a Dana	BI.	TEAT DAY	A DEDODT	
1-5000	a the second sec	5 Standard Pro		Aggregate Dase	FILL DENSITY	IESI DAIL	IKEPUKI	
I-AUKI	ns & Assoc.	M Modified Pro	octor PK =	Pit Kun	(12)-21-27-27-27-27-27-27-27-27-27-27-27-27-27-			
NOTE location Lincol uniform the fill	Results indicate in-place soil densities at the ns and depths identified above. Grand Junction a DeVore has relied on the contractor to provide n mix placement and compactive effort throughout area.	Nuclear Density Testing of other coarse grained soils m correction of Unit Weight / Content, ASTM D-4718. contain oversize particles in the limits of ASTM D-4718	pit run' or Nuclear nay require perform And Water control If soils with vis excess of methods	Density Testing is ed for acceptance and is combined ual and penetration i.		GRAND JUNCTION LINCOLN DeVORE	Geote En Ge	echnical ngineers- cologists

.

	Client:	Travis Jordan					Report No:	7		
	Project:	Grandview Subdivision, Filing 4					Date of Test:	10-19-99		
	Location						Test By: LS	, RL		
							GJLD Job No	: 87684-GJ		
	TEST TYPE:	Nuclear (ASTMNuclear (ASTM 2922)2922) BackscatterDirect Trans. X	(ASTM D-1556) Sand Cone	SPECIFICA	TIONS: Pr	roject:	City: X	County:	State:	
	Test No.	Location of Test		C	OMPACTION %	COMPA SPEC. 9	C. MOISTURE CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE
	140	WS, Lots 11 & 12, Blk 1 @ 2 BSG		95		95	13.8	+-2	115.2@14.7	С
	141	WS, Lot 6, Blkk 3 @ 2' BSG		95		95	13.2	+-2	115.2@14.7	с
~	142	WS, Lot 5, Blk 3 @ 2' BSG		95		95	13.7	+-2	115.2@14.7	с
	143	Water main, sta 2+50 @ 2' BSG		96		95	15.3	+-2	115.2@14.7	с
	144	WS, Lots 10 & 11, Blk 2 @ 2' BSG		95		95	12.9	+-2	115.2@14.7	с
	145	Water main, Conifer St., sta 0+50 @ 2' BSG		10	0	95	15.0	+-2	115.2@14.7	с
	146	WS, Lots 1 & 2, Blk 3 @ 2 BSG		96		95	16.3	+-2	115.2@14.7	с
	147	WS, Lots 3 & 4, Blk 3 @ 2' BSG		95		95	16.2	+-2	115.2@14.7	с
	148	Water fire hydrant, Lot 1, Blk 3 @ FSG		10	0	95	13.0	+-2	115.2@14.7	с
	149	WS, Lots 12 & 13, Blk 2 @ FSG		96		95	15.0	+-2	115.2@14.7	с
	150	Water main, Pagosa Dr, sta 0+50 @ FSG		10	0	95	13.9	+-2	115.2@14.7	с
5	151	WS, Lots 1 & 2, Blk 2 @ FSG		96		95	13.1	+-2	115.2@14.7	с
/	152	WS, Lot 3, Blk 2 @ FSG		97		95	15.8	+-2	115.2@14.7	с
	DISTRIE	BUTION: Page 1 of 3	KEY: • Fails Compac	tion Spec.	C = Cohesi	ve	GRAND JUNCTIC	N LINCOLN De	VORE, INC.	
	1-Client	1-Ute Water	** Fails Moistu	ire Spec.	NC = NonCo	hesive	BY:	1//	he	<u> </u>
	I-Subdiv	Env 1-City of GJ	S Standard Pr	octor	ABC = Aggreg	ate Base	FILL DENSITY	TEST DAIL	Y REPORT	1
	1-Atkins	& Assoc.	M Modified Pr	roctor	PR = Pit Run					
	NOTE: locations Lincoln I uniform the fill as	Results indicate in-place soil densities at the and depths identified above. Grand Junction De Vore has relied on the contractor to provide mix placement and compactive effort throughout rea.	Nuclear Density Testing of other coarse grained soils n correction of Unit Weight Content, ASTM D-4718. contain oversize particles in the limits of ASTM D-4711	*pit run' or nay require And Water If soils n excess of 8	Nuclear Density performed for an control and is a with visual and p methods.	Testing is coordinate combined constration	(B)	GRAND JUNCTION LINCOLN DeVORE	Geota Er G	echnical agineers- cologists

ئەر	Travis Jordan				Report No: 7				
Project:	Grandview Subdivision, Filing 4				Date of Test:	10-19-99			
Location				- 11 - 1 - 1	Test By: LS	, RL			
					GJLD Job No	: 87684-GJ			
TEST TYPE:	Nuclear (ASTMNuclear (ASTM 2922)2922) BackscatterDirect Trans. X	(ASTM D-1556) SPECI Sand Cone	FICATIONS: Pi	roject:	City: X	County:	State:		
Test No.	Location of Test		COMPACTION %	COMPAC SPEC. %	. MOISTURE CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE	
153	WS, Lots 4 & 5, Blk 2 @ FSG		95	95	13.7	+-2	115.2@14.7	С	
154	Water main, Eldorado Ct., sta 2+00 @ FSG		100	95	13.2	+-2	115.2@14.7	с	
155	Water main, Eldorado Ct., sta 0+25 @ FSG		98	95	13.2	+-2	115.2@14.7	с	
156	Water main, Grandview Dr., sta 0+50 @ FSG		99	95	13.5	+-2	115.2@14.7	с	
157	WS, Lots 1 & 2, Blk 1 @ FSG		99	95	13.2	+-2	115.2@14.7	с	
158	Water fire hydrant, Lot 6, Blk 2 @ FSG	×	99	95	13.8	+-2	115.2@14.7	с	
159	WS, Lot 6, Blk 2 @ FSG		100	95	15.3	+-2	115.2@14.7	с	
160	WS, Lot 7, Blk 2 @ FSG		100	95	14.0	+-2	115.2@14.7	с	
161	Water main, sta 2+50, Grandview Dr @ FSG		100	95	14.7	+-2	115.2@14.7	с	
162	WS, Lots 3 & 4, Blk 1 @ FSG		99	95	14.3	+-2	115.2@14.7	с	
163	WS, Lots 5 & 6, Blk 1 @ FSG		100	95	13.4	+-2	115.2@14.7	с	
164	WS, Lots 7 & 8, Blk 1 @ FSG		99	95	14.1	+-2	115.2@14.7	с	
165	Water main, sta 4+50 @ FSG		100	95	13.1	+-2	115.2@14.7	C	
DISTRI	BUTION: Page 2 of 3	KEY: • Fails Compaction Spec	c. C = Cohesi	ve (GRAND JUNCTIO	N LINCOLN De	VORE, INC.		
1-Client	1-Ute Water	 Fails Moisture Spec. 	NC = NonCo	hesive 1	BY:	ee l	1/ce.		
1-Subdiv	v Env 1-City of GJ	S Standard Proctor	ABC = Aggreg	ate Base	FILL DENSITY	TEST DAIL	Y REPORT		
1-Atkins	& Assoc.	M Modified Proctor	PR = Pit Rur	L.					
NOTE: locations Lincoln uniform the fill a	Results indicate in-place soil densities at the s and depths identified above. Grand Junction DeVore has relied on the contractor to provide mix placement and compactive effort throughout rea.	Nuclear Density Testing of 'pit run' of other coarse grained soils may requir correction of Unit Weight And Wald Content, ASTM D-4718. If soil contain oversize particles in excess of the limits of ASTM D-4718	r Nuclear Density performed for a control and is with visual and p f methods.	Testing is cceptance combined enetration		GRAND JUNCTION LINCOLN DeVORE	Geote En Ge	chnical gincers- cologists	

Lient:	Travis Jordan				Report No:	7		
Project:	Grandview Subdivision, Filing 4				Date of Test:	10-19-99		
Location					Test By: LS	, RL		
		n			GJLD Job No): 87684-GJ	-	
TEST TYPE:	Nuclear (ASTMNuclear (ASTM 2922)2922) BackscatterDirect Trans. X	(ASTM D-1556) SP Sand Cone	ECIFICATIONS: P	roject:	City: X	County:	State:	
Test No.	Location of Test		COMPACTION %	COMPAC SPEC. %	C. MOISTURE CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE
166	Water main, sta 6+50 @ FSG		98	95	15.6	+-2	115.2@14.7	с
167	Water fire hydrant, Lots 8 & 9, Blk 2 @ FSG		100	95	13.1	+-2	115.2@14.7	с
168	WS, Lot 8, Blk 2 @ FSG		96	95	14.1	+-2	115.2@14.7	с
169	WS, Lot 9, Blk 2 @ FSG		98	95	14.5	+-2	115.2@14.7	с
170	WS, Lots 9 & 10, Blk 1 @ FSG		100	95	14.5	+-2	115.2@14.7	с
171	Water main, Grandview Dr, sta 0+25 @ FSG		96	95	13.9	+-2	115.2@14.7	с
	8							
DISTRI	BUTION: Page 3 of 3	KEY: * Fails Compaction	Spec. C = Cohesi	ive	GRAND JUNCTIO	N LINCOLN De	YORE, INC.	
1-Client	1-Ute Water	** Fails Moisture Sp	pec. NC = NonCo	hesive	BY:			
1-Subdi	v Env 1-City of GJ	S Standard Proctor	ABC = Aggreg	ate Base	FILL DENSITY	TEST DAIL	Y REPORT	
1-Atkins	s & Assoc.	M Modified Proctor	r PR = Pit Rur	1				
NOTE: location Lincoln uniform the fill a	Results indicate in-place soil densities at the s and depths identified above. Grand Junction DeVore has relied on the contractor to provide mix placement and compactive effort throughout rea.	Nuclear Density Testing of 'pit r other coarse grained soils may re correction of Unit Weight And Y Content, ASTM D-4718. If contain oversize particles in exc the limits of ASTM D-4718	un' or Nuclear Density equire performed for a Water control and is soils with visual and p ess of methods.	Testing is cceptance combined enetration		GRAND JUNCTION LINCOLN DeVORE	Geoti Er G	chnical gincers- cologists

1	Client	Travis Jordan					Report No: 8				
1	Project:	Grandview Subdivision, Filing 4					Date of Test:	10-20-99			
	Location	:					Test By: RL				
							GJLD Job No	: 87684-GJ			
	TEST TYPE:	Nuclear (ASTMNuclear (ASTM 2922)2922) BackscatterDirect Trans. X	(ASTM D-1556) Sand Cone	SPECIE	FICATIONS: Pr	oject:	City: X	County:	State:		
	Test No.	Location of Test			COMPACTION %	COMPA SPEC. 9	C. MOISTURE 6 CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE	
	172	Utility crossing, E. Pagosa Dr., sta 1+00 @ FS	G		95	95	15.4	+-2	115.2@14.7	с	
	173	Water main, E. Pagosa Dr., sta 2+50 @ FSG			97	95	14.7	+-2	115.2@14.7	с	
-	174	WS, Lots 1 & 2, Blk 3 @ FSG			96	95	14.4	+-2	115.2@14.7	с	
	175	WS, Lots 3 & 4, Blk 3 @ FSG			96	95	14.6	+-2	115.2@14.7	С	
	176	WS, Lot 5, Blk 3 @ FSG			97	95	16.6	+-2	115.2@14.7	с	
	177	WS, Lots 10 & 11, Blk 2 @ FSG			96	95	15.5	+-2	115.2@14.7	с	
	178	WS, Lot 6, Bik 3 @ FSG			99	95	14.9	+-2	115.2@14.7	С	
	179	Fire hydrant, E. Pagosa Dr., sta 1+00 @ FSG			97	95	15.8	+-2	115.2@14.7	с	
	180	Utility crossing, Conifer Ct., sta 0+20 @ FSG			98	95	15.8	+-2	115.2@14.7	с	
	181	Water main, Conifer Ct., sta 0+80 @ FSG			99	95	13.8	+-2	115.2@14.7	С	
	182	Water main, E. Pagosa Dr., sta 4+50 @ FSG			96	95	14.5	+-2	115.2@14.7	с	
C	183	WS, Lots 11 & 12, Blk 1 @ FSG			96	95	14.1	+-2	115.2@14.7	с	
7	184	Fire hydrant, E. Pagosa Dr., sta 4+50 @ FSG			96	95	13.7	+-2	115.2@14.7	с	
	DISTRIE	BUTION: Page 1 of 2	KEY: * Fails Compact	ion Spec.	C = Cohesi	ve	GRAND JUNCTIO	NLINCOLND	VORE, INC.		
	1-Client	1-Ute Water	** Fails Moistur	e Spec.	NC = NonCo	hesive	BY:	Cal			
	1-Subdiv	Env 1-City of GJ	S Standard Pro	ctor	ABC = Aggrega	ate Base	FILL DENSITY	TEST DAIL	Y REPORT		
	I-Atkins	& Assoc.	M Modified Pro	ctor	PR = Pit Run						
	NOTE: locations Lincoln I uniform the fill a	Results indicate in-place soil densities at the and depths identified above. Grand Junction DeVore has relied on the contractor to provide mix placement and compactive effort throughout rea.	Nuclear Density Testing of other coarse grained soils m correction of Unit Weight A Content, ASTM D-4718. contain oversize particles in the limits of ASTM D-4718	pit run' or ay require and Water If soils excess of	r Nuclear Density 7 performed for ac control and is of with visual and per f methods.	Testing is cceptance combined enetration		GRAND JUNCTION LINCOLN DeVORE	Geote En Ge	chnical gineers- cologists	

Client:	Travis Jordan			Report No: 8						
Project:	Grandview Subdivision, Filing 4					Date of Test:	10-20-99			
Location	Ľ					Test By: RL				
						GJLD Job No	GJLD Job No: 87684-GJ			
TEST TYPE:	Nuclear (ASTMNuclear (AST)2922) BackscatterDirect Trans.	2922) (ASTM D-1556) Sand Cone	SPECIFI	ICATIONS: PI	roject:	City: X	County:	State:		
Test No.	Location of Test			COMPACTION %	COMPA SPEC.	AC. MOISTURE CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE	
185	Utility crossing, Grandview Dr., sta 5+50	@ FSG		99	95	13.0	+-2	115.2@14.7	С	
186	Utility crossing, Grandview Dr., sta 1+50	Ø FSG		96	95	13.7	+-2	115.2@14.7	с	
DISTRI	BUTION: Page	of 2 KEY: • Fails Compare	ction Spec.	C = Cohesi	ive	GRAND JUNCTIO	N LINCOLN De	VORE, INC.		
1-Client	I-Ute Water	** Fails Moist	ture Spec.	NC = NonCo	hesive	BY:	1/1/1	le contraction de la contracti		
1-Subdi	v Env 1-City of GJ	S Standard Pi	roctor	ABC = Aggreg	ate Base	FILL DENSITY	TEST DAIL	Y REPORT		
1-Atkins	a & Assoc.	M Modified P	Proctor	PR = Pit Run	ι		- · · · · · · · · · · · · · · · · · · ·			
NOTE: locations Lincoln uniform the fill a	Results indicate in-place soil densities at the s and depths identified above. Grand Junction DeVore has relied on the contractor to provide mix placement and compactive effort through rea.	Nuclear Density Testing of other coarse grained soils correction of Unit Weight Content, ASTM D-4718 contain oversize particles in the limits of ASTM D-471	Nuclear Density Testing of 'pit run' or other coarse grained soils may require correction of Unit Weight And Water Content, ASTM D-4718. If soils contain oversize particles in excess of the limits of ASTM D-4718				GRAND JUNCTION LINCOLN DeVORE	Geoto Er Gu	echnical igineers- eologists	

t

Client:	Travis Jordan			Report No: 9					
Project:	Grandview Subdivision, Filing 4					Date of Test:	10-27-99		
Location	Ľ					Test By: LS	, RL		
						GJLD Job No	: 87684-GJ		
TEST TYPE:	Nuclear (ASTM Nuclear (AST 2922) Backscatter Direct Trans.	(ASTM D-1 X Sand Cond	1556) SPECIF	FICATIONS: PI	roject:	City: X	County:	State:	
Test No.	Location of Test			COMPACTION %	COMPAC SPEC. 9	C. MOISTURE CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE
187	Sewer MH EP2 @ 4' BSG	-		100	95	13.4	+-2	115.2@14.7	с
188	Sewer MH EP2 @ 2' BSG			99	95	12.9	+-2	115.2@14.7	с
189	Sewer MH D1, Dillon Ct @ 3' BSG			100	95	13.1	+-2	115.2@14.7	с
190	Sewer main between MH EP2 & D1 @ 3		100	95	13.3	+-2	115.2@14.7	с	
191	SS, Lot 7, Blk 3 @ 3' BSG			99	95	14.3	+-2	115.2@14.7	с
192	SS, Lt 8, Blk 3 @ 3' BSG		2	100	95	13.3	+-2	115.2@14.7	с
193	SS, Lot 9, Blk 3 @ 3' BSG			96	95	12.9	+-2	115.2@14.7	с
194	SS, Lot 13, Blk 1 @ 3' BSG			99	95	13.3	+-2	122.7@12.5	с
195	SS, Lot 10, Blk 3 @ 3' BSG			96	95	14.0	+-2	122.7@12.5	с
196	SS, Lot 14, Blk 1 @ 3' BSG		×	95	95	13.5	+-2	122.7@12.5	с
197	SS, Lot 11, Blk 3 @ 3' BSG			96	95	12.7	+-2	115.2@14.7	с
198	Sewer main between MH EP2 & EP3 @	3' BSG		97	95	13.2	+-2	115.2@14.7	с
199	SS, Lot 15, Blk 1 @ 3' BSG			99	95	14.8	+-2	115.2@14.7	с
DISTRI	BUTION: Page	lof2 KEY: • Fa	ails Compaction Spec.	C = Cohesi	ve	GRAND JUNCTIO	N LINCOLN De	YORE, INC.	
1-Client	1-Ute Water	** I	Fails Moisture Spec.	NC = NonCo	hesive	BY:	<u>elli</u>	12	
1-Subdiv	v Env 1-City of GJ	SS	Standard Proctor	ABC = Aggreg	ate Base	FILL DENSITY	TEST DAIL	Y REPORT	
1-Atkins	a & Assoc.	M	Modified Proctor	PR = Pit Run					
NOTE: location: Lincoln uniform the fill a	Results indicate in-place soil densities at the s and depths identified above. Grand Junction DeVore has relied on the contractor to provide mix placement and compactive effort through rea.	Nuclear Densit other coarse gr correction of L Content, AST contain oversiz the limits of A	ty Testing of 'pit run' or rained soils may require Unit Weight And Water M D-4718. If soils ze particles in excess of STM D-4718	r Nuclear Density performed for a control and is with visual and performethods.	Testing is cooptance combined enetration	B	GRAND JUNCTION LINCOLN DeVORE	Geote En Ge	chnical gineers- cologists

.

Client:	Travis Jordan					Report No: 9						
Project:	Grandview Subdivision, Filing 4					Date of Test:	Date of Test: 10-27-99					
Location	1:	3				Test By: LS, RL						
		3				GJLD Job No	: 87684-GJ					
TEST TYPE:	Nuclear (ASTMNuclear (ASTM 2922)2922) BackscatterDirect Trans. X	(ASTM D-1556) Sand Cone	SPECIF	ICATIONS: PI	roject:	City: X	County:	State:				
Test No.	Location of Test			COMPACTION %	COMPA SPEC. 9	C. MOISTURE CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE			
200	Sewer MH EP3 @ 3' BSG			95	95	13.3	+-2	115.2@14.7	С			
201	Sewer MH K1, Keystone @ 2' BSG			97	95	13.1	+-2	115.2@14.7	с			
202	Sewer main between MH EP3 & K1 @ 3' BSG		ł	96	95	13.4	+-2	115.2@14.7	с			
203	SS, Lot 12, Blk 3 @ 2' BSG			95	95	12.8	+-2	115.2@14.7	с			
204	SS, Lot 13, Blk 3 @ 2' BSG			100	95	13.8	+-2	115.2@14.7	с			
205	SS, Lot 14, Blk 3 @ 2' BSG			98	95	13.1	+-2	115.2@14.7	с			
									~			
					l							
DISTRI	BUTION: Page 2 of 2	KEY: • Fails Compact	tion Spec.	C = Cohesi	ive	GRAND JUNCTIO	N LINCOLN De	VORE, INC.				
1-Client	1-Ute Water	** Fails Moistu	re Spec.	NC = NonCo	hesive	BY:	à Cla	1100				
1-Subdi	v Env 1-City of GJ	S Standard Pro	octor	ABC = Aggreg	ate Base	FILL DENSITY	TEST DAIL	Y REPORT				
1-Atkins	a & Assoc.	M Modified Pr	octor	PR = Pit Run	1							
NOTE: location Lincoln uniform the fill a	Results indicate in-place soil densities at the s and depths identified above. Grand Junction DeVore has relied on the contractor to provide mix placement and compactive effort throughout rea.	Nuclear Density Testing of other coarse grained soils m correction of Unit Weight / Content, ASTM D-4718. contain oversize particles in the limits of ASTM D-4718	'pit run' or nay require And Water If soils n excess of S	Nuclear Density performed for a control and is with visual and p methods.	Testing is cceptance combined enetration		GRAND JUNCTION LINCOLN DeVORE	Geota Er G	echnical ngineers- cologists			

Client:	Travis Jordan					Report No: 10			
Project:	Grandview Subdivision, Filing 4					Date of Test:	10-28-99		
Location	:					Test By: LS	, RL		
						GJLD Job No	: 87684-GJ		
TEST TYPE:	Nuclear (ASTMNuclear (ASTM 2922)2922) BackscatterDirect Trans. X	(ASTM D-1556) Sand Cone	SPECIF	ICATIONS: P	roject:	City: X	County:	State:	
Test No.	Location of Test			COMPACTION %	COMPAG SPEC. 9	C. MOISTURE 6 CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE
206	Sewer MH K1 @ 1' BSG			100	95	14.1	+-2	115.2@14.7	С
207	Sewer main between MH EP3 & K1 @ 1' BSG			100	95	13.9	+-2	115.2@14.7	с
208	SS, Lot 14, Blk 3 @ 1' BSG			100	95	15.3	+-2	115.2@14.7	с
209	SS, Lot 13, Blk 3 @ 1' BSG		96	95	16.5	+-2	115.2@14.7	с	
210	SS, Lot 12, Blk 3 @ 1' BSG			97	95	15.0	+-2	115.2@14.7	С
211	Sewer MH EP3 @ 1' BSG			96	95	13.1	+-2	115.2@14.7	с
212	Sewer main between MH EP3 & EP2 @ 1' BS	3		96	95	13.4	+-2	115.2@14.7	c
213	SS, Lot 15, Blk 1 @ 1' BSG			98	95	13.8	+-2	115.2@14.7	с
214	SS, Lot 11, Blk 3 @ 1' BSG			100	95	13.8	+-2	115.2@14.7	с
215	SS, Lot 14, Blk 1 @ 1' BSG			95	95	12.9	+-2	115.2@14.7	с
216	SS, Lot 10, Blk 3 @ 1' BSG			100	95	12.8	+-2	115.2@14.7	с
217	SS, Lot 13, Blk 3 @ 1' BSG			100	95	12.9	+-2	115.2@14.7	с
218	Sewer main between MH MHJ & EP2 @ 2' BS	G		100	95	13.0	+-2	115.2@14.7	с
DISTRI	BUTION: Page 1 of 2	KEY: • Fails Compactio	on Spec.	C = Cohesi	ve	GRAND JUNCTIO	NUNCOLNO	VORE, INC.	
1 Cuter			e Spec.	NC = NonCo	nesive	BY	N/L/L	Lee	
1-Subary	Env 1-City of GJ	S Standard Proc	tor	ABC = Aggreg	ate Base	FILL DENSITY	TEST DAIL	YREPORT	
I-Atkins	& Assoc.		PR = Pit Run						
NOTE: locations Lincoln l uniform the fill a	OTE: Results indicate in-place soil densities at the cations and depths identified above. Grand Junction incoln DeVore has relied on the contractor to provide tiform mix placement and compactive effort throughout e fill area. Nuclear Density other coarse grain correction of Un Content, ASTM contain oversize the limits of AST			Nuclear Density performed for ac control and is with visual and per methods.	Festing is cceptance combined enetration		GRAND JUNCTION LINCOLN DeVORE	Geoto Er Ge	echnical agineers- cologists

Client:	Travis Jordan	10								
Project:	Grandview Subdivision, F	iling 4					Date of Test:	10-28-99		
Location	L				20-01-01-01-0		Test By: LS	, RL		
							GJLD Job No	: 87684-GJ		
TEST TYPE:	Nuclear (ASTM 2922) Backscatter	Nuclear (ASTM 2922) Direct Trans. X	(ASTM D-1556) Sand Cone	SPECIE	FICATIONS: P	roject:	City: X	County:	State:	
Test No.	Location of Test				COMPACTION %	COMPA SPEC. 9	C. MOISTURE CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE
219	SS, Lot 7, Blk 3 @ 2' BSG	;			96	95	15.0	+-2	115.2@14.7	С
220	SS, Lot 8, Blk 3 @ 2' BSG	ì			100	95	12.8	+-2	115.2@14.7	с
221	SS, Lot 9, Blk 3 @ 2' BSG				96	95	13.3	+-2	115.2@14.7	с
222	Sewer MH MH1 @ 2' BSG	;			100	95	13.2	+-2	115.2@14.7	с
										÷
5.										
DISTRI		Page 2 of 2	KEV: * Esile Compact	tion Spec	C = Cohesi	11/2			VORE INC	
1-Client	1-Ute Water		** Fails Moistu	re Spec	NC = NonCo	thesive	BY.			
1-Subdiv	Env 1-City of GJ		S Standard Pro	xtor	ABC = Appres	ate Base	FILL DENSITY	TEST DAIL	YREPORT	
1-Atking	& Assoc		M Modified Pr	nclor	PR = Pit Pur		1100 10011011	INT PAID		
NOTE	Results indicate in-place soil	densities at the	Nuclear Density Testing of	'pit run' o	Nuclear Density	Testing is	THE A TRACK THE			
locations Lincoln uniform the fill a	s and depths identified above. De Vore has relied on the contr mix placement and compactive rea.	Grand Junction actor to provide effort throughout	other coarse grained soils m correction of Unit Weight / Content, ASTM D-4718. contain oversize particles in the limits of ASTM D-4718	ay require And Water If soils excess of	performed for a control and is with visual and p f methods.	cceptance combined enetration		GRAND JUNCTION LINCOLN DeVORE	Geote Er Ge	echnical ngineers- eologists

01:	Territe lorder		the second s	D	4.4					
Chent:	i ravis Jordan		<u> </u>				Report No:	11		··
Project:	Grandview Subdivision, F	iling 4					Date of Test:	10-29-99		
Location	i:						Test By: RI	•	······································	
							GJLD Job N	b: 87684-GJ		
TEST TYPE:	Nuclear (ASTM 2922) Backscatter	Nuclear (ASTM 2922) Direct Trans. X	(ASTM D-1556) Sand Cone	SPECIF	ICATIONS: PI	roject:	City: X	County:	State:	
Test No.	Location of Test				COMPACTION %	COMPA SPEC. 9	C. MOISTURE CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE
223	MH EP2 @ FSG				96	95	13.8	+-2	115.2@14.7	с
224	Sewer main between MH	EP2 & D1 @ FSG			95	95	13.2	+-2	115.2@14.7	с
225	MH D1 @ FSG				97	95	12.9	+-2	115.2@14.7	с
226	SS, Lot 7, Blk 3 @ FSG				98	95	12.8	+-2	115.2@14.7	с
227	SS, Lot 8, Blk 3 @ FSG				97	95	13.3	+-2	115.2@14.7	с
228	SS, Lot 9, Blk 3 @ FSG				96	95	13.1	+-2	115.2@14.7	с
229	SS, Lot 10, Blk 3 @ FSG				95	95	13.8	+-2	115.2@14.7	с
230	SS, Lot 13, Blk 1 @ FSG				95	95	14.4	+-2	115.2@14.7	с
231	Sewer main between MH	EP2 & EP3 @ FSG			95	95	14.3	+-2	115.2@14.7	с
232	SS, Lot 14, Blk 1 @ FSG				95	95	13.6	+-2	115.2@14.7	с
233	SS, Lot 11, Blk 3 @ FSG				96	95	14.6	+-2	115.2@14.7	с
234	SS, Lot 15, Blk 1 @ FSG				98	95	13.5	+-2	115.2@14.7	с
135	MH EP3 @ FSG		-		95	95	15.8	+-2	115.2@14.7	с
DISTRI	BUTION:	Page 1 of 3	KEY: * Fails Compact	ion Spec.	C = Cohesi	ive	GRAND JUNCTIC	N LINCOLN De	VORE, INC.	
1-Client	1-Ute Water		** Fails Moistu	re Spec.	NC = NonCo	hesive	BY:			
1-Subdiv	Env 1-City of GJ		S Standard Pro	octor	ABC = Aggreg	ate Base	FILL DENSITY	TEST DAIL	Y REPORT	
I-Atkins	& Assoc.		M Modified Pro	octor	PR = Pit Run	1				
NOTE: locations Lincoln I uniform the fill a	Results indicate in-place soil and depths identified above. DeVore has relied on the contr mix placement and compactive rea.	densities at the Grand Junction actor to provide e effort throughout	Nuclear Density Testing of other coarse grained soils m correction of Unit Weight A Content, ASTM D-4718. contain oversize particles in the limits of ASTM D-4718	pit run' or ay require And Water If soils excess of	Nuclear Density performed for a control and is with visual and p methods.	Testing is cceptance combined enetration		GRAND JUNCTION LINCOLN DeVORE	Geote Er Ge	echnical ngineers- eologists

GRANDVIEW SUBDIVISION FILINGS 5/6



GRAND JUNCTION LINCOLN - DeVORE, Inc.

Geotechnical Consultants Grand Junction, Colorado GRANDVIEW SUBDIVISION FILINGS 5/6

Client:	Travis Jordan					Report No:	1		
Project:	Grandview Subdivision, Fil. 5/8				<u> </u>	Date of Test	5-21-01		
Location						Test By: RI		<u> </u>	
						GJLD Job No	o: 88692-GJ		
TEST TYPE:	Nuclear (ASTM Nuclear (ASTM 2922 2922) Backscatter Direct Trans. X) (ASTM D-1556) Sand Cone	SPECH	FICATIONS: P	roject:	City:	X County:	State:	
Test No.	Location of Test			COMPACTION %	COMP SPEC.	AC. MOISTURE % CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE
1	Sewer MH TA-1 @ -2' BSG			98	95	13.3	+-2	115.2@14.7	с
2	SS, Lot 1, Blk 1 @ -2' BSG			100	95	13.4	+-2	115.2@14.7	с
3	SS, Lot 1, Blk 2 @ -2' BSG			97	95	13.4	+-2	115.2@14.7	с
4	Sewer main, between MH TA-1 & TA-2 @ -2'	BSG		99	95	12.8	+-2	115.2@14.7	с
DISTRIB	UTION:	KEY. * Fails Compact	on Sneo						
I-Client	1-Ute Water	** Foils Moistur	on spec.	C = Cohesiv	ve	GRAND JUNCTION	N LINCOLN Dev	VORE INC.	
1-Subdiv	Env 1-City of GJ	S Standard Proc	e opec. stor	NC = NonCol ABC = Aggrega	nesive ate Base	BY:	TEST DAT	A DEDODT	
1-Atkins	& Assoc.	M Modified Pro	ctor	PR = Pit Run		I ILL DENSII I	IESI DAIL	I KEPUKI	
NOTE: locations Lincoln E uniform n the fill are	Results indicate in-place soil densities at the and depths identified above. Grand Junction eVore has relied on the contractor to provide hix placement and compactive effort throughout ea.	Nuclear Density Testing of 'p other coarse grained soils ma correction of Unit Weight Ar Content, ASTM D-4718. I contain oversize particles in e the limits of ASTM D-4718	oit run' or y require nd Water if soils excess of	Nuclear Density T performed for acc control and is c with visual and per- methods.	Cesting is ceptance ombined netration	G	GRAND UNCTION INCOLN DeVORE	Geotec Eng Geo	chnical gineers- ologists

Client:	Travis Jordan						Report No:	2		
Project:	Grandview Subdivision, Fi	1. 5/6					Date of Test:	5-22-01		
Location	1:						Test By: LS	5	· · · · · ·	
							GJLD Job No	o: 88692-GJ		
TEST TYPE:	Nuclear (ASTM 2922) Backscatter	Nuclear (ASTM 2922) Direct Trans. X	(ASTM D-1556) Sand Cone	SPECII	FICATIONS: PI	roject:	City:	X County:	State:	
Test No.	Location of Test				COMPACTION %	COMPA SPEC.	C. MOISTURE CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE
5	SS, Lot 2, Blk 1 @ 2' BSG				95	95	13.5	+-2	115.2@14.7	С
6	SS, Lot 2, Blk 2 @ 2' BSG				95	95	13.8	+-2	115.2@14.7	с
7	SS, Lot 3, Blk 1 @ 2' BSG				96	95	14.1	+-2	115.2@14.7	с
8	SS, Lot 3, Blk 2 @ 2' BSG			97	95	15.0	+-2	115.2@14.7	с	
9	Sewer main between MH 1	ra-1 & ta-2 @ 2' bs	G		98	95	14.2	+-2	115.2@14.7	с
10	SS, Lot 4, Blk 1 @ 2' BSG				96	95	13.7	+-2	115.2@14.7	с
11	SS, Lot 4, Blk 2 @ 2' BSG				98	95	15.8	+-2	115.2@14.7	с
12	Sewer MH TP-2 @ 2' BSG	i			95	95	13.7	+-2	115.2@14.7	с
13	SS, Lot 5, Blk 1 @ 2' BSG				100	95	15.1	+-2	115.2@14.7	с
14	SS, Lot 5, Blk 2 @ 2' BSG				95	95	15.5	+-2	115.2@14.7	с
15	Sewer main between MH 1	rp-2 & tp-3 @ 2' bs	G		98	95	14.7	+-2	115.2@14.7	с
16	SS, Lot 6, Blk 1 @ 2' BSG				97	95	14.9	+-2	115.2@14.7	с
17	SS, Lot 7, Blk 1 @ 2 BSG				97	95	15.3	+-2	115.2@14.7	с
DISTRI	BUTION:	Page 1 of 2	KEY: * Fails Compacti	on Spec.	C = Cohesi	ve	GRAND JUNCTIO	N LINCOLN DE	VORE, INC.	
1-Client	1-Ute Water		** Fails Moistur	e Spec.	NC = NonCo	hesive	BY:			
I-Subdi	Subdiv Env 1-City of GJ S Star				ABC = Aggreg	ate Base	FILL DENSITY	TEST DAIL	Y REPORT	
1-Atkins	s & Assoc.	M Modified Pro	octor	PR = Pit Run						
NOTE: location Lincoln uniform the fill a	Results indicate in-place soil s and depths identified above. DeVore has relied on the contra mix placement and compactive trea.	Nuclear Density Testing of ' other coarse grained soils m correction of Unit Weight A Content, ASTM D-4718. contain oversize particles in the limits of ASTM D-4718	pit run' or ay require and Water If soils excess of	Nuclear Density 7 performed for ac control and is a with visual and per methods.	Testing is cceptance combined enetration	B	GRAND JUNCTION LINCOLN DeVORE	Geote En Ge	chnical gin cers- cologists	

Client:	Travis Jordan						Report No:	2		
Project:	Grandview Subdivision, Fi	1. 5/6					Date of Test:	5-22-01		
Location	6 7						Test By: LS	\$		
							GJLD Job No	o: 88692-GJ		
TEST TYPE:	Nuclear (ASTM 2922) Backscatter	Nuclear (ASTM 2922) Direct Trans. X	(ASTM D-1556) Sand Cone	SPECIF	ICATIONS: Pr	roject:	City:	X County:	State:	
Test No.	Location of Test				COMPACTION %	COMPA SPEC. 9	C. MOISTURE 6 CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE
18	SS, Lot 7, Blk 2 @ 2' BSG				99	95	13.1	+-2	115.2@14.7	С
19	SS, Lot 8, Blk 1 @ 2' BSG				99	95	14.0	+-2	115.2@14.7	с
20	SS, Lot 8; Blk 2 @ 2' BSG				98	95	13.8	+-2	115.2@14.7	с
21	SS, Lot 9, Bik 1 @ 2' BSG				96	95	13.7	+-2	115.2@14.7	с
22	Sewer MH TP-3 @ 2' BGS	;			97	95	13.9	+-2	115.2@14.7	с
23	SS, Lot 6, Blk 2 @ 2' BSG				98	95	13.6	+-2	115.2@14.7	с
DISTRI	BUTION:	Page 2 of 2	KEY: * Fails Compact	ion Spec.	C Cohesi	ve	GRAND JUNCTIO	N LINCOLN De	VORE INC.	
1-Client	1-Ute Water		** Fails Moistu	re Spec.	NC NonCol	hesive	BY:			
1-Subdiv	Env 1-City of GJ		S Standard Pro	octor	ABC = Aggrega	ate Base	FILL DENSITY	TEST DAIL	Y REPORT	
1-Atkins	& Assoc.		M Modified Pro	octor	PR – Pit Run					
NOTE: locations Lincoln uniform	Results indicate in-place soil and depths identified above. DeVore has relied on the contra mix placement and compactive rea.	densities at the Grand Junction actor to provide effort throughout	Nuclear Density Testing of other coarse grained soils m correction of Unit Weight A Content, ASTM D-4718. contain oversize particles in	pit run' or ay require And Water If soils excess of	Nuclear Density 7 performed for ac control and is c with visual and pe methods.	Festing is ecceptance combined enetration		GRAND JUNCTION LINCOLN DeVORE	G c ote En Ge	chnical gineers-

Client:	Travis Jordan					Report No:	3			
Project:	Grandview Subdivision, Fil. 5/6				9	Date of Test:	5-23-01			
Location	t (Test By: LS	5			
		<u> </u>		· · · · · · · · · · · · · · · · · · ·		GJLD Job No	o: 88692-GJ			
TEST TYPE:	Nuclear (ASTMNuclear (ASTM 2922)2922) BackscatterDirect Trans. X	(ASTM D-1556) Sand Cone	SPECIF	FICATIONS: P	roject:	City:	X County:	State:		
Test No.	Location of Test			COMPACTION %	COMPA SPEC. 9	C. MOISTURE % CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE	
24	Sewer MH TP1 @ FSG			96	95	14.0	+-2	115.2@14.7	С	
25	Sewer main between MH TP1 & TP2 @ FSG			95	95	13.5	+-2	115.2@14.7	с	
26	SS, Lot 1, Blk 1 @ FSG			97	95	13.8	+-2	115.2@14.7	с	
27	SS, Lot 1, Blk 2 @ FSG			98	95	15.0	+-2	115.2@14.7	с	
28	SS, Lot 2, Blk 1 @ FSG			99	95	15.1	+-2	115.2@14.7	с	
29	SS, Lot 2, Blk 2 @ FSG			99	95	14.7	+-2	115.2@14.7	с	
30	SS, Lot 3, Blk 1 @ FSG			96	95	13.5	-2	115.2@14.7	с	
31	SS, Lot 3, Blk 2 @ FSg			95	95	13.0	2	115.2@14.7	с	
32	SS, Lot 4, Blk 1 @ FSG			99	95	14.7	+-2	115.2@14.7	с	
33	SS, Lot 4, Blk 2 @ FSG			97	95	14.1	+-2	115.2@14.7	с	
34	Sewer MHP TP2 @ FSG			98	95	13.7	+-2	115.2@14.7	с	
35	Sewer main between MH TP2 & TP3 @ 1' BSG	3		98	95	14.6	+-2	115.2@14.7	с	
36	SS, Lot 1, Blk 1 @ 2' BSG			97	95	15.3	+-2	115.2@14.7	с	
DISTRIE	BUTION: Page 1 of 2	KEY: * Fails Compact	ion Spec.	C = Cohesiv	ve	GRAND JUNCTIO	N LINCOLN De	VORE, INC.		
1-Client	1-Ute Water	** Fails Moistur	re Spec.	NC = NonCol	hesive	BY:			-	
I-Subdiv	Env 1-City of GJ	S Standard Pro	ctor	ABC = Aggrega	te Base	FILL DENSITY	TEST DAIL	Y REPORT		
1-Atkins	& Assoc.	M Modified Pro	octor	PR = Pit Run						
NOTE: locations Lincoln I uniform the fill a	Results indicate in-place soil densities at the and depths identified above. Grand Junction DeVore has relied on the contractor to provide mix placement and compactive effort throughout rea.	pit run' or ay require and Water If soils excess of	Nuclear Density T performed for ac control and is c with visual and pe methods.	festing is ceptance combined netration	B	GRAND UNCTION LINCOLN DeVORE	Geoter Eng Geo	chnical gineers- ologists		
Client: Travis Jordan						Report No:	Report No: 3 Date of Test: 5-23-01 Test By: LS			
--	--	--	--	--	----------------	-------------------------------------	--	-------------------	----	--
Project:	Project: Grandview Subdivision, Fil. 5/6									
Location										
						GJLD Job N	GJLD Job No: 88692-GJ			
TEST TYPE:	STNuclear (ASTMNuclear (ASTM 2922)(ASTM D-1556)StYPE:2922) BackscatterDirect Trans. XSand Cone			ICATIONS: P	roject:	City: X County:		State:		
Test No.	Location of Test			COMPACTION %	COMPA SPEC.	AC. MOISTURE % CONT. %	MOISTURE SPEC. %	PROCTOR VALUE		
37	SS, Lot 5, Blk 2 @ 1' BSG			97	95	14.4	+-2	115.2@14.7	Í	
38	SS, Lot 6, Blk 1 @ 1' BSG			95	95	13.3	+-2	115.2@14.7		
39	SS, Lot 7, Blk 1 @ 18" BSG			95	95	13.0	+-2	115.2@14.7		
40	SS, Lot 7, Blk 2 @ 18" BSG			95	95	13.6	+-2	115.2@14.7		
41	SS, Lot 8, Blk 2 @ 1' BSG			99	95	14.9	+-2	115.2@14.7		
42	SS, Lot 8, Blk 2 @ 1' BSG			97	95	15.4	+-2	115.2@14.7		
43	SS, Lot 9, Blk 1 @ 1' BSG			95	95	13.2	+-2	115.2@14.7		
44	Sewer MH TP3 @ 1' BSG			96	95	13.4	+-2	115.2@14.7		
	52									
DISTRIBUTION: Page 2 of 2 KEY: * Fails Compaction			on Spec.	C = Cohesive		GRAND JUNCTION LINCOLAD OVORE, INC.				
I-Client I-Ute Water		** Fails Moisture	e Spec.	NC = NonCohesive		BY: Manifilla				
1-Subdiv Env 1-City of GJ		S Standard Proc	and Proctor ABC = Aggregate		ate Base	FILL DENSITY TEST DAILY REPORT				
1-Atkins	a & Assoc.	M Modified Pro	ctor	PR = Pit Run						
NOTE: Results indicate in-place soil densities at the locations and depths identified above. Grand Junction Lincoln DeVore has relied on the contractor to provide uniform mix placement and compactive effort throughout the fill area.		Nuclear Density Testing of 'p other coarse grained soils ma correction of Unit Weight Ar Content, ASTM D-4718. I contain oversize particles in c	it run' or y require nd Water if soils excess of	Nuclear Density Testing is performed for acceptance control and is combined with visual and penetration methods.			GRAND JUNCTION LINCOLN DeVORE	Geote En Ge	ec	

Client:	Client: Travis Jordan							Report No: 4					
Project:	Project: Grandview Subdivision, Fil. 5/6						Date of Test: 5-24-01						
Location	Location:						Test By: LS, RL						
							GJLD Job No: 88692-GJ						
TEST TYPE:	Nuclear (ASTMNuclear (ASTM2922) BackscatterDirect Trans.	(ASTM D-1556) X Sand Cone	SPECIF	TICATIONS: P	roject:	City:	X County:	State:					
Test No.	Location of Test			COMPACTION %	COMPA SPEC. 9	C. MOISTURE % CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE				
45	SS, Lot 9, Blk 2 @ 4' BSG			96	95	14.4	+-2	115.2@14.7	С				
46	Sewer existing MH @ 4' BSG		95	95	13.4	+-2	115.2@14.7	с					
47	SS, Lot 1, Bik 4 @ 4' BSG		95	95	13.1	+-2	115.2@14.7	с					
48	Sewer main between existing & MH TB1		95	95	12.9	+-2	115.2@14.7	с					
49	SS, Lot 9, Blk 2 @ -2' BSG			99	95	12.7	+-2	115.2@14.7	с				
50	SS, Lot 1, Blk 4 @ -2' BSG		100	95	13.2	+-2	115.2@14.7	с					
51	Sewer MH TB1/RO2 @ -2' BSG		100	95	13.6	+-2	115.2@14.7	с					
52	Sewer main between MH RO2 & RO3 @		99	95	13.7	+-2	115.2@14.7	с					
:													
DISTRIBUTION: KEY: * Fails Compaction			tion Spec.	C = Cohesi	ve	GRAND JUNCTION	AND JUNCTION LINCOLN DeVORE, INC.						
I-Client	1-Ute Water	** Fails Moistu	re Spec.	NC = NonCohesive B		BY: KL							
1-Subdiv	Env 1-City of GJ	S Standard Pro	octor	ABC = Aggregate Base FI		FILL DENSITY TEST DAILY REPORT							
I-Atkins & Assoc. M Moo		M Modified Pr	octor	PR = Pit Run									
NOTE: Results indicate in-place soil densities at the locations and depths identified above. Grand Junction Lincoln DeVore has relied on the contractor to provide uniform mix placement and compactive effort throughout the fill area.		Nuclear Density Testing of 4 other coarse grained soils m correction of Unit Weight A Content, ASTM D-4718. contain oversize particles in the limits of ASTM D-4718	pit run' or ay require And Water If soils excess of	Nuclear Density Testing is performed for acceptance control and is combined with visual and penetration methods.			GRAND JUNCTION Geotechnical LINCOLN Engineers- DeVORE Geologists						

Client:	Client: Travis Jordan Report Nov. 5												
Project:	Project: Grandview Subdivision Fil 5/6												
							Date of Test: 6-1-01						
Location	Location:							Test By: LS, JS					
		GJLD Job N	GJLD Job No: 88692-GJ										
TEST TYPE:	Nuclear (ASTM Nuclear (ASTM 2922 2922) Backscatter Direct Trans. X	SPECIE	FICATIONS: Project:		City:	X County:	State:						
Test No.	Location of Test		COMPACTION %	COMP SPEC.	AC. MOISTURE % CONT. %	MOISTURE SPEC. %	PROCTOR VALUE	SOIL TYPE					
53	Sewer MH CA1 @ 2' BSG			100	95	14.2	÷++2	115.2@14.7	c				
54	Sewer MH CA1 @ FSG			95	95	13.8	+-2	115 2@14 7	C .				
55	Sewer main between MH CA1 & CA2 @ 2' BS	G		100	95	14.3	+-7	115 2@14.7					
56	Sewer main between MH CA1 & CA2 @ FSG		100	95	14.2	+ 2	115.2@14.7						
57	SS, Lot 13, Blk 2 @ 2' BSG			06	05	13.0	1-2	115.2(0)14.7					
	_			50	95	13.9	<u>.</u>	115.2@14.7	С				
	20. Z												
						~							
DISTRIBUTION: KEY: • Fails			ion Spec.	C = Cohesiy	/e	GRAND JUNCTIO							
I-Client	I-Ute Water	** Fails Moisture	e Spec.	NC = NonCohesive BY		SPS BY:	Y: Stall						
1-Subdiv	Env 1-City of GJ	S Standard Proc	ctor	ABC = Aggregate Base FII		FILL DENSITY	TILL DENSITY TEST DAILY REPORT						
1-Atkins	& Assoc.	M Modified Pro	ctor	PR = Dit Dun			TEST DINE						
NOTE: locations Lincoln I uniform i the fill ar	Results indicate in-place soil densities at the and depths identified above. Grand Junction DeVore has relied on the contractor to provide nix placement and compactive effort throughout ea.	Nuclear Density Testing of 'p other coarse grained soils ma correction of Unit Weight An Content, ASTM D-4718. I contain oversize particles in o the limits of ASTM D-4718	bit run' or ly require nd Water If soils excess of	Nuclear Density Testing is performed for acceptance control and is combined with visual and penetration methods.		B	GRAND IUNCTION LINCOLN DeVORE	Geotec Eng Geo	hnical incers- ologists				